# HUAWEI nova 5T

## User Guide

HUAWEI

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# Exciting Features

## Featured Usage Tips

### Enroll Your Facial Information and Enable Face Unlock

Face unlock allows you to unlock your Phone quickly and securely, without the need of a password.

- Face unlock can only be used when the owner account is logged in. It is not supported by PrivateSpace.
- Face unlock is not available if the lock screen password has not been entered for three or more days in a row, or if your Phone has been remotely locked or restarted.
- When using Face unlock, keep your eyes open, and face your Phone straight on from a distance of 20–50 cm (about 8–20 in.). In order to scan your face accurately, avoid using this feature when you are in a dark environment or facing direct light.

1 Open **Settings**. Go to **Security & privacy** > **Face recognition** and enter your lock screen password.

If you haven't set up a lock screen password, set one first. Besides the 6-digit PIN, you can set up other types of passwords: **Pattern**, **4-digit PIN**, **Custom PIN**, or **Password**.

2 Selecting **Enable pick up to wake** will allow the screen to turn on and unlock when you pick up your Phone and hold it to your face. If you do not need this feature, leave it deselected. Touch **Get started**, and enroll your face.

3 If you are concerned that face unlock may fail due to a change in appearance after makeup or a haircut, or you want to enroll an entirely different face, go to the **Face recognition** screen, touch **Set an alternate look** and follow the onscreen instructions just like you did when registering your face initially.

4 Face unlock modes:

- **Select an unlock method**: On the **Face recognition** screen, touch **Unlock device**. If you select **Direct unlock**, your Phone identifies your facial features and unlocks your screen when the screen is on. If you select **Slide to unlock**, after your Phone identifies your facial features, you can slide the lock screen to unlock. Selecting **Off** will disable Face unlock.
- **Smart display of lock screen notifications**: Enable **Show notifications**. On the lock screen, your Phone hides notification details and displays them only after recognizing the owner's face.
- **Access App lock**: Enable **Access app lock** to access App lock and locked apps using Face unlock.

### Pick Up to Unlock

Open **Settings**, and go to **Security & privacy** > **Face recognition**. When enrolling facial data, select **Enable pick up to wake**, and set the Face unlock method to **Direct unlock**. Once the setup is complete, you can simply raise your Phone to unlock the screen, without a password or fingerprint.

If you haven't selected **Enable pick up to wake** when enrolling facial data, you can open **Settings**, go to **Security & privacy** > **Face recognition**, and set the Face unlock method to **Direct unlock**. Then, open **Settings**, go to **Smart assistance** > **Shortcuts & gestures** > **Wake screen**, and select **Pick up to wake**.

### Access Phone Functions from Anywhere with Navigation Dock

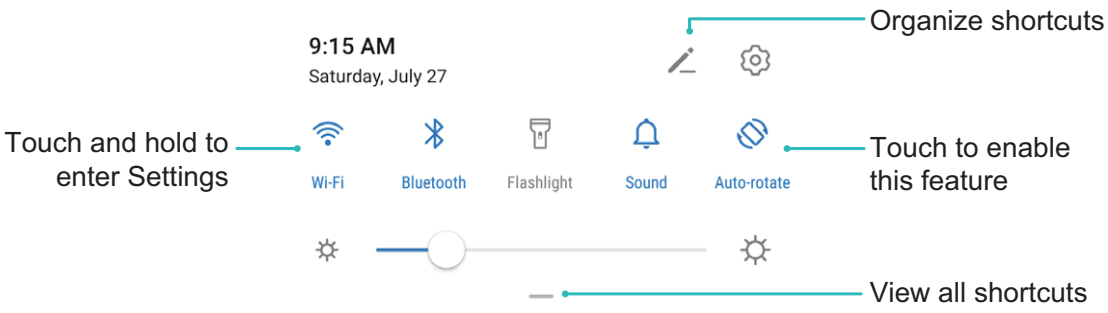
In order to close an app or return to the home screen, you must use the navigation bar at the bottom of your Phone. You can enable the Navigation dock feature on your Phone to avoid using navigation buttons and to comfortably operate your device with one hand.

Open **Settings**. Go to **System** > **System navigation** > **Navigation dock** and enable **Navigation dock**. The Navigation dock will appear on the screen. You can then drag it to your preferred location. The Navigation dock can perform the following actions:

- **Back**: Touch the Navigation dock once to go back one step, or touch it twice to go back two steps.
- **Home**: Touch and hold the Navigation dock and then release it to go to the home screen.
- **View background apps**: Touch and hold the Navigation dock and then swipe left or right to view any apps that are running in the background.

### Use Shortcut Switches to Quickly Enable Frequently Used Features

Want to quickly enable or disable mobile data or hotspot? You can enable frequently used features by using shortcut switches.




## Camera Tips

### AI camera, Intelligent Photo Scene Identification

**AI camera** can automatically identify your current photography scene and intelligently adjust the color and brightness of the photo, so you don't need to repeatedly adjust your camera for the perfect shot.

**AI camera** is a preset camera feature on your Phone that intelligently identifies your current photography scene and automatically adjusts the color and brightness of your photo to help you achieve better effects.

**AI camera** provides you with the following features:

- **Intelligently identifies photographing scenes and improves photo effects**: **AI camera** supports multiple scenes, such as the stage, beach, blue sky, greenery, and text scenes. After smart identification, **AI camera** automatically adjusts the color and brightness of the camera and recommends an optimal mode (such as the portrait, greenery, or text mode) to improve photo effects.
- **Enable AI camera to automatically configure and adjust camera settings**: When you open the camera and enter Standard camera mode, touch to enable **AI camera** as required. Once enabled, this feature will intelligently identify the photography scene, which saves you the trouble of repeated manual adjustments.

- **AI camera** is automatically disabled when you switch to Portrait mode, Wide aperture mode, or Moving picture mode.

## Use Portrait Mode to Shoot Like a Pro

Go to **Camera** > **Portrait**, adjust the following settings, then touch to take a portrait.

- **Blur effect**: Touch the icon in the viewfinder and select a blur effect.

  A light source (such as a neon or street light) in a relatively well-lit background will contribute to a better blur effect.

- **Beauty effect**: Touch in the viewfinder and drag the slider to adjust beauty settings. A larger value will produce a more distinct beauty effect.

  To disable the beauty effect, touch the icon in the viewfinder and drag each setting to its lowest value.

## Use Panorama Mode to Take Panoramic Photos

Panoramas provide a wider viewing angle than ordinary photos, letting you take sweeping landscape shots.

To capture a panorama shot, the camera takes multiple photos of objects within our visual field and stitches them together into a single photo.

When taking a panorama, find a wide, open space that is some distance away from the subject and try to avoid backgrounds that are all in one color.

1. Go to **Camera** > **More** > **Panorama**.
2. Touch at the bottom of the screen to configure the shooting direction.
3. Hold your Phone steady, and then touch to start shooting. Slowly move the Phone in the direction indicated, holding the device steady and ensuring that the arrow stays level with the center line.
4. Touch when you are finished. The camera will automatically stitch the photos together to create a panorama.

## Custom Shooting Modes

Want to discover new ways of using your camera besides the preset functions? You can download or delete shooting modes based on your needs.

**Download more shooting modes**: Open **Camera** > **More** > **Download**. Select the shooting modes to download, and touch **ADD**.

**Update shooting modes**: To update shooting modes, go to the **More** screen. The shooting modes with available updates will have red dots next to them. You can follow the onscreen prompts to update them.

**Delete shooting modes**: Go to **More** > , and touch to delete unneeded shooting modes.

To ensure that Camera works normally, preset shooting modes cannot be deleted.

## Use Pro Mode to Take Scenic Photos

Go to **Camera** > **More** > **Pro**.

**Adjust metering based on the subject of the shot**: On the Pro mode screen, touch and select a metering mode accordingly.

| Metering Mode | Application Scenario |
|---|---|
| **Matrix** | The subjects are broad landscapes and seas. |
| **Center** | The subject is in the center and stands out from the background. |
| **Spot** | The subject to be highlighted is relatively small, such as a flower or a tree. |

**Adjust brightness based on the shooting environment**:

- **Adjust ISO**: On the Pro mode screen, touch ISO and adjust the slider.

  To avoid excessive image noise, an ISO value below 400 is recommended. The recommended ISO value for the daytime is between 100 to 200, but may exceed 400 for some night scenes.

- **Adjust shutter speed**: On the Pro mode screen, touch S (shutter speed) and adjust the slider.

  The recommended shutter speed for static scenes (such as mountains) is between 1/80 and 1/125 of a second. For moving scenes (such as waves), select a relatively fast shutter speed and use a tripod for best results.

- **Adjust EV compensation**: On the Pro mode screen, touch EV and adjust the slider.

**Adjust AWB**: On the Pro mode screen, touch AWB and adjust the slider.

- When shooting in bright sunlight, select . In low light environments, select .
- Touch to adjust the color temperature. If you want to give your photo a warm, cozy, nostalgic tone, increase the K value. For a cool, calm, or futuristic tone, reduce the K value.

**Select Focus mode based on the subject of the shot**: On the Pro mode screen, touch AF and adjust the slider.

| Focus Mode | Application Scenario |
|---|---|
| **AF-S mode** | Static scenes (such as mountains) |
| **AF-C mode** | Moving scenes (such as flowing water and waves) |
| **MF mode** | Protruding objects (such as a close-up of a flower) |

**Keep your device steady when shooting**: On the Pro mode screen, touch and enable **Horizontal level**. A horizontal guiding line will appear on the viewfinder. If a dotted line appears, the camera is not yet parallel with the horizontal level. When the dotted line overlaps with the solid line, the camera is now parallel with the horizontal level.

- In Pro mode, changing a specific setting will sometimes cause other settings to change as well. Adjust them according to your actual requirements.
- The recommended settings above are for reference only. Adjust them according to actual usage conditions to achieve your desired effect.

## Use Pro Mode to Capture Portraits

Want to take more professional portraits? The Pro mode allows you to adjust your camera settings to shoot professional portraits.

Open **Camera** > **More** > **Pro**.

**Select a Metering mode**: or mode is recommended for taking portraits. Place your shooting subjects (their faces for example) in the center of the viewfinder.

**Adjust brightness based on the shooting environment**

- **Adjust ISO**: To avoid excessive noises, it is recommended that you adjust the ISO to a low level when shooting portraits. You may adjust the ISO based on the actual shooting environments.

| Shooting Environment | Recommended ISO |
|---|---|
| Outdoors | Between 100 and 200 |
| Indoors | Around 400 |
| Night scenes | Between 400 and 800 |

- **Adjust shutter speed**: The shutter speed should be slow if the ambient light is low and fast when the ambient light is strong. The recommended shutter speed for static portraits is between 1/80 and 1/125. To shoot moving subjects, select a shutter speed at or above 1/125.
- **Adjust EV compensation**: You may increase the EV compensation if the light on the subjects or background is low, and decrease the EV compensation if there is too much light.

**Adjust AWB**: Select AWB depending on the lighting conditions. When shooting under sunlight, you can select . In a low light environment, you can select .

**Adjust Focus**: To better highlight a subject, it is recommended that you use manual focus (MF) when shooting portraits. In the viewfinder, touch to focus on the part (the subject's face for example) you want to highlight.

- In Pro mode, some settings may change after you change a setting. You may adjust them based on your actual needs.
- The recommended settings above are for reference only. You may adjust them based on the actual usage conditions to achieve your desired effect.

# More Features

## Use Password Vault

Password vault saves and fills in your passwords, allowing you to log in to apps on your Phone more conveniently and securely.

**Enable or disable Password vault**: Password vault is enabled by default. After you update your Phone, enable Password vault by performing the following operations:

1. Enter the lock screen password to access the Password vault settings. Open **Settings**, and go to **Security & privacy** > **Password vault**.
2. Enter your lock screen password to access the **Password vault** screen.
3. Enable **Password vault**. When you log in to an app for the first time or after logging out, select **SAVE**, and your username and password will be saved. Next time you log in, use the method you picked, for example Face unlock, to automatically fill in your username and password to log in to the app.
4. Enable or disable **Autofill settings** for individual apps. If the autofill feature is enabled for an app, you can use your face, fingerprint, or lock screen password to fill in the password when you log in. If this feature is disabled, your username and password must be entered manually.

## Enable App Lock

App lock allows you to set a password for your important apps. Once you restart your Phone or unlock the screen, you will be asked to enter your App lock password when opening these apps. App lock adds an extra layer of protection for your private information and prevents unauthorized access to important apps on your Phone.

**Enable App lock**: Open **Settings**. Go to **Security & privacy** > **App lock**. When you first access App lock, select **Lock screen password** or **Custom PIN** as your **App lock** verification password. Enter your password as prompted and on the **App lock** screen, toggle on the switch for the apps you want to lock.

**Set your App lock password**: Touch on the **App lock** screen, then touch **Password type**. Select **Lock screen password** or **Custom PIN**.

## Enable PrivateSpace

Do you worry that potentially embarrassing information might be seen by your friends and co-workers when you are showing them photos and other things on your Phone? PrivateSpace lets you store private information in a hidden space within your device that can only be accessed with your fingerprint or password.

You can add up to three users to **Users** and **PrivateSpace** on your Phone. If you have already added three users under **Settings** > **Users & accounts** > **Users** > **Add user**, you cannot add more users to **PrivateSpace**.

**Enable PrivateSpace**: If you are using PrivateSpace for the first time, open **Settings**, go to **Security & privacy** > **PrivateSpace** > **Enable**, and follow the onscreen instructions to create your PrivateSpace.

You can only create one PrivateSpace.

**Quickly switch between MainSpace and PrivateSpace**: From the lock screen, you can quickly switch between spaces using your fingerprint or password. After you restart your Phone, you are required to first enter the MainSpace using your password. You can then switch between spaces from your lock screen.

**Enter PrivateSpace**: You can enter your PrivateSpace directly from the lock screen using your fingerprint or password. Alternatively, open **Settings** in MainSpace, and go to **Security & privacy** > **PrivateSpace** > **Log in** to enter your PrivateSpace.

**Exit PrivateSpace**: After entering your PrivateSpace, open **Settings**, and go to **Security & privacy** > **PrivateSpace** > **Exit**. When you exit your PrivateSpace, all system memory used by the PrivateSpace will be freed. You can still switch back to your PrivateSpace when you need it.

**Delete PrivateSpace**: Deleting your PrivateSpace will permanently delete all apps and data stored within your PrivateSpace and this data will be unable to be restored. You can delete your PrivateSpace in the following ways:

- From the MainSpace, open **Settings**, then go to **Security & privacy** > **PrivateSpace** and touch ⋮ > **Delete PrivateSpace**.
- In PrivateSpace, open **Settings**, and go to **Security & privacy** > **PrivateSpace** > **Delete**.

## Set Your Home Screen Wallpaper

Tired of default wallpapers? Set a photo you like as your home screen wallpaper to personalize your home screen.

Open **Settings**, and then go to **Home screen & wallpaper** > **Wallpaper**. You can:

**Set a picture as your home screen wallpaper**: Touch **Gallery** or select a preset wallpaper in your device, and follow the onscreen instructions to select **Lock screen**, **Home screen** or **Both**.

**Set a photo as your wallpaper from Gallery**: Have a great photo you want to set as your wallpaper? In **Gallery**, open the photo that you like, go to ⋮ > **Set as** > **Wallpaper**, and follow the onscreen instructions to set the photo as your home screen wallpaper.

## Manage Your Home Screen Widgets

Want to quickly add widgets such as screen lock, weather, notepad, clock, contacts, or calendar to your home screen? You can add, move or delete home screen widgets to tidy up your home screen and ease your usage experience.

**Add widgets**: Pinch in with your fingers on the home screen to enter home screen editing mode. Touch **Widgets**, touch and hold a widget and drag it to an empty area on the home screen, or touch the widget you want.

Check that there are enough empty spaces on the home screen for the widget. If there is not enough space, add an empty screen page or free up some space on the current home screen page.

**Delete widgets**: Touch and hold a widget on the home screen until your Phone vibrates, and then select **Remove**.

**Move widgets**: Touch and hold a widget on the home screen until your Phone vibrates. Drag the widget to any position on the screen.

## Use App Drawer to Store Apps

Want to store your apps in one location on your home screen to make your home screen look cleaner? You can enable app drawer on your home screen to store all your apps and free up space on your home screen.

Open **Settings**, go to **Home screen & wallpaper** > **Home screen style**, and select **Drawer**. If you want to switch back to a standard home screen, select **Standard**.

**Add an app icon from app drawer to the home screen**: After you enable app drawer, touch on the home screen to enter the app list. From the app list, touch and hold the app icon that you want to add until your Phone vibrates, and then drag it to the desired position on the home screen.

## Enable Memory Cleanup

Your Phone may slow down over time as your storage space gets smaller. Use Memory cleanup to free up storage space, improve system performance, and keep your Phone running smoothly.

Open **Optimizer**, then touch **Cleanup** to clean up memory and clear the cache to optimize performance. If your storage space is still low, perform a deep clean to free up additional storage space.

# New Device

## New Device Configuration

### Connecting to the Internet

Connect to Wi-Fi networks effortlessly with your device.

#### Connecting to a Wi-Fi network

1 Swipe down from the status bar to open the notification panel.

2 Touch and hold to open the Wi-Fi settings screen.

3 Switch on **Wi-Fi**. Your device will list all available Wi-Fi networks at your location.

4 Select the Wi-Fi network you want to connect to. If you select an encrypted network, you will also need to enter the Wi-Fi password.

#### Connecting using mobile data

Before using mobile data, ensure that you have a data plan with your carrier to avoid incurring excessive data charges.

1 Swipe down from the status bar to open the notification panel.

2 Touch to enable mobile data.

To save battery power and reduce data usage, disable your mobile data connection when you don't need it.

### Enroll a Fingerprint to Unlock the Screen

You can enroll a fingerprint on your Phone to unlock your screen, access Safe, or use App lock without a password.

- Fingerprint unlock is only available when your unlock method is set to **Pattern**, **4-digit PIN**, **Custom PIN** or **Password**. When your Phone restarts or your fingerprint is not recognized, you will need to use your lock screen password to unlock the device.
- Before enrolling a fingerprint, make sure your finger is clean and dry.

1 Open **Settings**.

2 Go to **Security & privacy** > **Fingerprint ID** and follow the instructions to set or enter the lock screen password.

3 Once you have done so, touch **New fingerprint** to enroll a fingerprint.

4 Place your fingertip on the fingerprint sensor and hold it there until your Phone vibrates. You can touch it lightly or press down slightly harder, according to your personal preference. Repeat this step using different parts of your fingertip.

5 After enrollment is complete, touch **OK**.

To unlock the screen, simply place your finger on the fingerprint sensor. You can also customize the screen unlock method by going to **Settings** > **Security & privacy** > **Fingerprint ID** > **Unlock when screen is off**, and then selecting **Rest finger** or **Press button**.

- Pressing and holding the fingerprint sensor for 3 seconds will power off your Phone. You are advised not to hold the sensor for too long when using the press to unlock method.
- When the screen is on, simply touch the fingerprint sensor to unlock the screen. If you press the fingerprint sensor, the screen will turn off instead.
- If both fingerprint and facial recognition are enabled, you can use both methods simultaneously to unlock the screen with maximum efficiency.

To set your Phone to vibrate when your fingerprint is not recognized, go to **Settings** > **Security & privacy** > **Fingerprint ID**, and enable **Vibrate when fingerprint is not recognized**.

## Connect to Wi-Fi

By connecting your device to a Wi-Fi network, you can effectively save mobile data.

To avoid potential security risks (such as unauthorized access to your personal data and financial information), please exercise caution when connecting to a public Wi-Fi network.

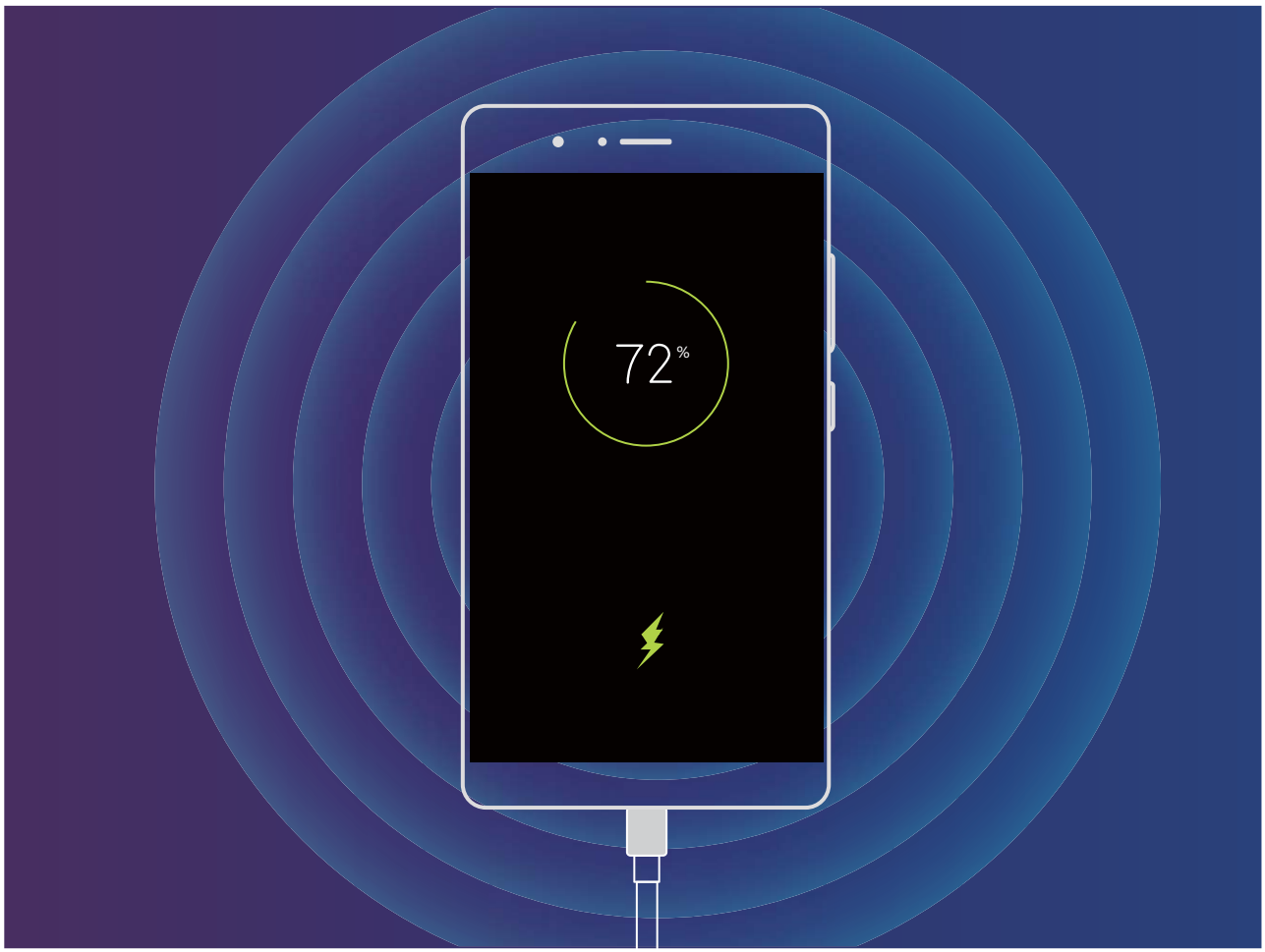
**Connect to a Wi-Fi Network**: Open **Settings**, go to **Wireless & networks** > **Wi-Fi**, and enable **Wi-Fi**. Touch a Wi-Fi network to access it, and enter the network password or complete the authentication if required. Alternatively, you can scroll to the bottom of the menu, touch **Add**

**network**, and follow the onscreen instructions to add a network hotspot by entering its name and password.

## Introduction to Super Fast Charging

The charger intelligently adjusts the charging voltage and current based on the battery level of your Phone for fast and safe charging.

⚠ Use the charger and USB cable that came with your Phone to charge your device. Using non-official chargers or USB cables may cause repeated restarts, slow charging, overheating, or other undesirable effects.



# Gestures and Operations

## HiVision

### Read QR Codes and Barcodes

1 Swipe down on the home screen, and touch to open **HiVision**.

2 Touch and place the QR code or barcode within the scan frame to acquire information.

3 From the results screen, you can:

- Touch to copy the information to the clipboard and paste anywhere you like.
- If the QR code contains contact information, touch to add the information to your **Contacts**.

### Scan Products

When you encounter an unknown item, you want to buy but can't find it. After scanning goods, you can get the purchase recommendations of similar items, which is convenient for you to buy favorite things.

This feature requires an Internet connection. Connect to a Wi-Fi network to avoid incurring unnecessary data charges.

1 Once your Phone is unlocked, swipe down from the center of the home screen, and touch to open **HiVision**.

2 On the HiVision screen, touch , then you can shop by scanning a product or by taking a screenshoot.

- Take a screenshoot to purchase: Frame the item in the viewfinder, then touch to take a screenshoot, The system will automatically recognize and recommend similar items.
- Scan the product to purchase: Frame the item in the viewfinder, the system will automatically scan and recommend similar items.

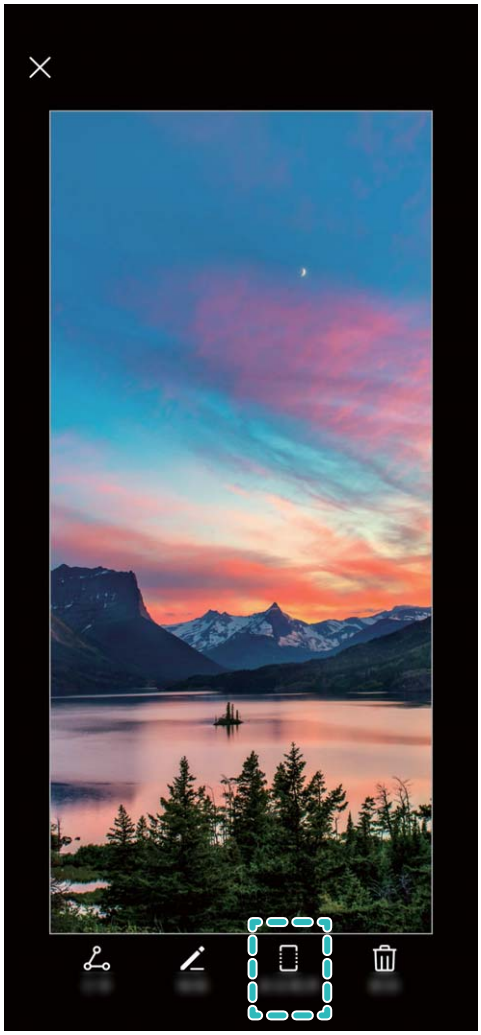
## Screenshots and Screen Recording

### Take Scrolling Screenshots to Capture Entire Pages

Tired of having to take several screenshots to capture long articles or chat records? You can use your Phone's scrolling screenshot feature to take a screenshot that scrolls all the way down to the bottom of the page, capturing all of the information on the page in a single screenshot.

**Use shortcuts to take a scrolling screenshot**: Swipe down from the status bar to open the notification panel, then touch to take a scrolling screenshot. Touch within two seconds of

taking the screenshot, and the screen will automatically scroll down and keep taking the screenshot. During the scrolling process, touch the scrolling area to end the screenshot.

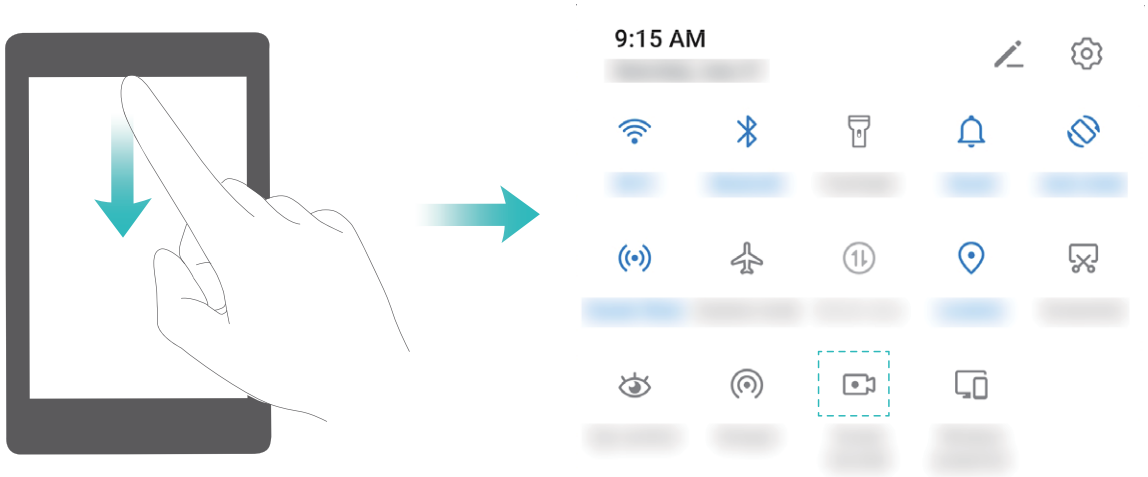


After taking the screenshot, touch or to edit or share the screenshot. The screenshot will be saved in **Gallery** by default.

## Record Exciting Moments on Your Screen

- Screen recordings will end if you make or answer a call.
- If you are making an audio recording on your Phone before starting a screen recording, will be disabled by default.
- Touching during a recording will enable or disable the microphone.
  - Enable microphone: You can record the ambient sounds and the system sounds of your Phone (system sounds can be played via the speaker).
  - Disable microphone: You are unable to record the ambient sounds, but you can still record the system sounds of your Phone (system sounds can be played via the speaker).
  - Disable microphone and turn off the sound: The screen will be recorded in silence.

**Use shortcut to start recording**: Swipe down from the status bar to open the notification panel, then touch to start a screen recording. You can turn on or off according to your requirements. To end the recording, touch the red timer in the upper left corner of the screen.




**Use key combination to start recording**: Simultaneously press and hold the **Power** button and **Volume up** button to start a screen recording. You can turn on or off according to your requirements. To end the recording, simultaneously press and hold the **Power** button and **Volume up** button again.

You can view your screen recordings in **Gallery**.

### Take a Screenshot of Your Entire Screen

**Use combo key to take screenshot**: Simultaneously press and hold the Power button and the Volume down button to take a screenshot of the full screen.

**Use shortcut switch to take screenshot**: Swipe down from the status bar and open the shortcuts panel, then touch to take a screenshot of the full screen.

## Split-screen

### Enable Split-Screen Mode

- Some apps may be not able to run properly in this mode.
- The availability and functionality of certain features may vary according to the device model, due to software and hardware differences.

**Use three fingers to enable Split-screen mode**: Open an app and swipe up on the screen with three fingers. Make sure not to swipe up from the very bottom of the screen.

**Use the Recent key to enable Split-screen mode**: If **Three-key navigation** is enabled, open an app, then touch and hold □.

**Touch ⊟ to enable Split-screen mode**:

1 If **Three-key navigation** is enabled, touch □ to enter the recent tasks screen. If **Gestures** is enabled, swipe up from the bottom of the screen and hold to access the recent tasks screen.

2 Touch ⊟ on top of an app to enter Split-screen mode.

**Intelligent Split-screen**: If you receive an SMS message or app notification while watching a video in full-screen mode, a banner will display, prompting you to split the screen.

## Adjust the Screen Display While in Split-Screen Mode

In Split-screen mode, you can switch to full-screen mode, move screen positions, change screen orientation, and access the home screen.

The availability and functionality of certain features may vary according to the device model, due to software and hardware differences.

**Switch to full-screen mode**: In Split-screen mode, touch and hold ▬, then swipe up or down to switch to full-screen mode.

**Swap screen locations**: In Split-screen mode, touch ▬ then ⇅ to switch the position of the screens.

**Change the orientation of the screen**: Swipe down the notification panel. Touch the ⟲ switch to enable automatic screen rotation.

The screen can only be switched to horizontal view when both active apps support horizontal view.

**Access the home screen**: In Split-screen mode, touch ○ on the virtual navigation bar to access the home screen. If you are using **Gestures**, swipe up from the bottom of the screen to enter the home screen.

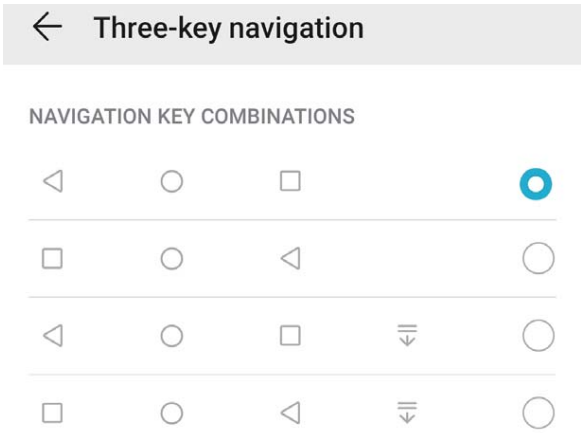
# Home Screen

## Navigation Bar

### Configure Your Navigation Bar Layout

Using the navigation bar, you can conveniently access the home screen, return to the previous page, exit an app, or view recent apps used.

To configure your navigation bar layout, open **Settings**, then go to **System** > **System navigation** > **Three-key navigation** > **Settings**, and select the navigation key combination and enable or disable **Hide navigation keys** based on your usage habits.




- **Back key**: Touch to return to the previous page or exit an app. Touch to close the onscreen keyboard when inputting text.
- **Home key**: Touch to return to the home screen.
- **Recent key**: Touch to open a list of recently used apps. Touch and hold to enable split screen mode.
- **Downward swipe notification key**: Touch to open the notification panel.

### Use the Recent Key to Manage Background Apps

Use the Recent key (one of the virtual navigation keys) to quickly switch between or close background apps.

Touch to view, close, lock, or switch between background apps.

- **View recently used apps**: Swipe left or right on the app list to check the recently used apps.
- **Switch to a recently used app**: Swipe left or right on the app list to find the app you want to use, and touch the app preview.
- **Close an app**: Swipe up on an app preview to close the app.

- **Close all the unlocked apps**: Touch to close all the unlocked apps.
- **Lock an app**: Swipe down on an app preview to lock the app, and the icon will appear on the top of the locked app. This app will not be cleared when you touch . Swipe down again on the app preview to unlock the app, and the icon on top of the app will disappear.

### Navigate with Gestures

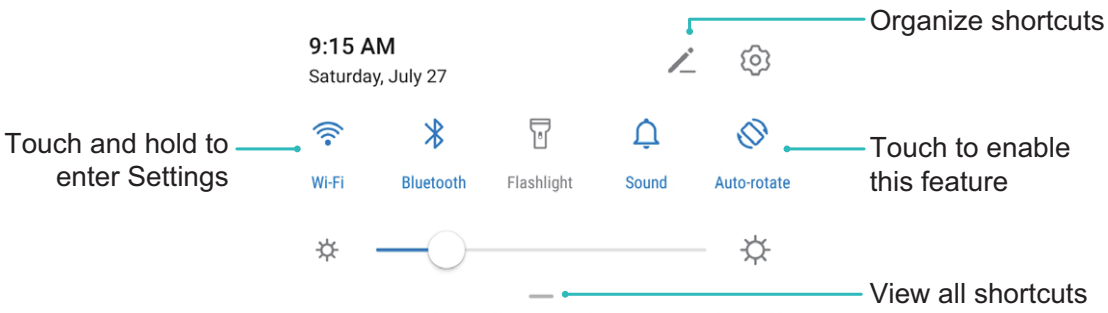
Navigate with gestures to quickly go back to the previous screen, return to the home screen, or view recent tasks.

Open **Settings**, go to **System** > **System navigation**, and select **Gestures**. You can:

- **Go back to the previous screen**: Swipe inward from the left or right edge of the screen.
- **Return to the home screen**: Swipe upwards from the bottom of the screen.
- **View recent tasks or end a task**: Swipe upwards from the bottom of the screen and hold to view recent tasks. Swipe up on an app preview to close an app, or touch to close all apps.

## Use Shortcut Switches to Quickly Enable Frequently Used Features

Want to quickly enable or disable mobile data or hotspot? You can enable frequently used features by using shortcut switches.




## Notification Panel and Status Bar

### Notification and Status Icons and Descriptions

The icons on the status bar give you a quick overview of the general status of your Phone, including its network connection, battery level, and any new messages received when your Phone is in Silent mode.

**Status icons**: By glancing at the status icons, you can quickly learn the status of your device, such as its network connection, signal strength, battery level, time, and more.

The network status icons may vary by regions and service providers.

| | | | |
|---|---|---|---|
| | Signal strength | | No signal |
| | 4G+ network connected | | 3G network connected |
| | 4G network connected | | HSPA network connected |
| | 2G network connected | | LTE network connected |
| | LTE+ network connected | | NFC enabled |
| | HSPA+ network connected | | Airplane mode enabled |
| | VoLTE available | | wi-fi network connected |
| | Roaming | | Receiving location data from GPS |
| | Bluetooth enabled | | Silent mode enabled |
| | wi-fi network available | | Charging |
| | Vibration mode enabled | | Battery level low |
| | Alarms enabled | | No SIM card detected |
| | Battery fully charged | | Headset plugged in |
| | Power saving mode enabled | | Performance mode enabled |
| | wireless projection in use | | Super charging |
| | Quick charging | | Eye comfort mode enabled |
| | Do not disturb mode enabled | | USB cable connected |
| | Data saving mode enabled | | Bluetooth power |
| | Hotspot enabled | | **Optimizer** reminder |
| | Unstable signal | | Can't connect a call on current network |
| | Select-to-speak enabled | | **Screen time management** enabled |

**Notification icons**: When there is a new message, notification or reminder on your Phone, the relevant icon will be displayed in the status bar.

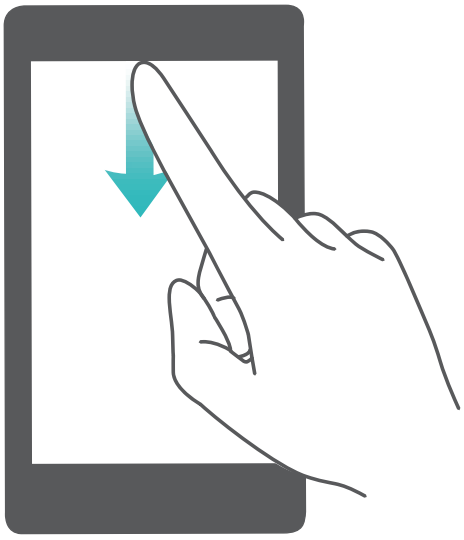
| | | | |
|---|---|---|---|
| | Missed calls | | New emails |
| | Downloading data | | New voicemails |
| | Events reminder | | Uploading data |
| | Synchronizing data | | Memory full |
| | Sign-in or synchronization problem | | Synchronization failed |
| | VPN connected | | More notifications |

## Open the Notification Panel to Get Important Information

Check the notifications and the operating status of your Phone on the status bar.

When there is a notification reminder, you can turn on the screen and swipe down from the status bar to view the notification.

**Access notification panel when the screen is unlocked**: Swipe down from the status bar to open the notification panel. You can turn on or off shortcut switches, or touch notifications to view the details.



## Disable App Notifications

Open **Settings** and touch **Notifications**. From here you can:

- **Block notifications from an app**: Select the app, then disable **Allow notifications**.
- **Block notifications from multiple apps**: Touch **Batch management**, then disable **All**.

To block notifications from an app, you can also swipe down from the status bar to open the notification panel, touch and hold an app notification, then disable **Allow notifications**.

### Customize Notification Settings

Open **Settings**, then go to **Notifications** > **More notification settings**. From here you can:

- **Enable Notifications turn on screen**: Enable **Notifications turn on screen** to set the screen to turn on when notifications are received.
- **Enable notification light**: Enable **Pulse notification light** to show a blinking indicator light when notifications are received.

## Screen Lock and Unlock

### Set a Lock Screen Password to Protect Your Privacy

Your Phone stores a lot of sensitive information, such as personal photos, contact information, banking apps (for example, Alipay). Set a lock screen password so that a password is required each time you unlock your Phone. A lock screen password helps to protect your private information if your Phone is lost or accessed by an unauthorized user.

**Set a lock screen password:** Open **Settings**, go to **Security & privacy** > **Lock screen password**, and set the type of lock screen password you prefer.

- **Set a PIN**: A PIN number is a sequence of digits. Entering a PIN to unlock your Phone is quick and simple. For better security, use a long sequence of random numbers as your PIN. Go to **Set lock screen password**, follow the prompts to set up a PIN. Alternatively, touch **Change unlock method**, and set **4-digit PIN** or **Custom PIN**.
- **Set a pattern**: Unlock your Phone by drawing a preset pattern on the screen. For better security, use a pattern that includes overlapping line segments. Go to **Set lock screen password** > **Change unlock method** > **Pattern** and draw the same pattern twice. The pattern must connect at least 4 dots.
- **Set a password**: A password made up of numbers, letters, and special characters is more secure than a PIN or pattern. For better security, use a password with 8 or more characters that includes numbers, letters, and special characters. Be sure to memorize the password so that you don't get locked out of your Phone if you forget it. Go to **Set lock screen password** > **Change unlock method** > **Password**, follow the prompts to set up a password.
- **Unlock your device using a smart band**: If your device supports unlocking with a smart band, the screen will automatically light up when the band comes within 80 cm of your device. Swiping on the screen of your Phone will instantly unlock the device. Touch **Smart unlock**, and follow the onscreen prompts to complete the setup.

- **Unlock your device using a fingerprint**: If your device supports fingerprint unlock, this is the recommended unlock method. Using a fingerprint is a secure and quick way to unlock the device. After setting a lock screen password, touch **Add** in the dialog box that pops up and follow the onscreen prompts to enroll your fingerprints.
- **For security reasons, please do not disable the lock screen password:** A lock screen password prevents unauthorized access to your device. For the security of your device, do not select **Disable lock screen password** as the screen lock method.
- **Regular password prompts help you to remember your password:** If you have not entered your screen lock password for 3 days, the system will require that you enter the password to unlock your device.

### Lock the Screen to Quickly Secure Your Phone

If you don't use your Phone for a set period of time, the screen will turn off and lock. As long as the screen stays on, you can use your Phone without needing to unlock the screen. Lock your screen when you are not using your Phone to protect your privacy and prevent mistaken inputs.

Set a lock screen password to help protect your privacy. You can lock your device in the following ways:

**Lock the screen instantly with the Power button**: Press the **Power button** to lock the screen at any time.

**Lock the screen with one-touch screen lock**: Pinch two fingers together on the home screen to enter the editing screen. Touch **Widgets** > **Screen Lock** and add the **Screen Lock** widget to your home screen. This helps reduce wear and tear on your power button. After leaving the home screen editing mode, touch the **Screen Lock** widget to instantly lock your screen. To lock your screen this way, first switch to the home screen page where the **Screen Lock** widget is located.

You can swipe up from the bottom of the Magazine unlock screen to display the Magazine unlock shortcut panel and use widgets such as recorder, calculator, and flashlight.

## Go Back to Basics with Simple Mode

Does your home screen look cluttered with app icons and small text? Simple mode maximizes the system volume and displays larger icons and fonts on the home screen, adopting a more concise layout which is easy to navigate.

Open **Settings**, go to **System** > **Simple mode**, and touch **Enable**.

In Simple mode, you can:

- **Edit home screen icons**: Touch and hold any icon to drag or uninstall certain non-system apps.
- **Exit Simple mode**: Touch **Settings** and select **Exit Simple mode**.

In **Simple mode**, go to **Settings** > **More settings** > **System** > **Reset** > **Reset all settings**. You will be directed to the default system home screen and all your settings in **Simple mode** will be reset.

# Home Screen Management

## Manage Home Screen Icons

**Move an app icon or folder**: On the home screen, touch and hold an app or folder icon until your Phone vibrates, then drag it to any position on the home screen.

**Delete an app icon**: On the home screen, touch and hold the icon of the app you want to uninstall until your Phone vibrates, then touch **Uninstall**.

To ensure that the system runs normally, some pre-installed system apps cannot be uninstalled.

**Lock the home screen layout**: Open **Settings**, go to **Home screen & wallpaper** > **Home screen settings**, and enable **Lock layout**.

**Create a folder**: On the home screen, touch and hold an app icon until your Phone vibrates, then drag it on top of another app icon. The two icons will be placed in a new folder.

**Delete a folder**: Open a folder, touch , deselect all the apps, then touch **OK**. The folder will be deleted and all app icons in the folder will be moved to your home screen.

**Rename a folder**: Open a folder and touch the folder name to enter a new name.

**Add or remove app icons from a folder**: Open a folder and touch . Select the apps you wish to add to the folder, deselect those you wish to remove, then touch **OK**.

Another way to remove an app icon from a folder is to touch and hold the icon in the folder until your Phone vibrates, then drag it to an empty space on the home screen.

## Manage Your Home Screen

Too many icons on your home screen? You can add a new page to your home screen and customize it to your liking.

Pinch in with your fingers on the home screen to enter home screen editing mode. You can do the following:

- **Add a new screen page**: Touch at the left or right side of the screen to add a new screen page.
- **Delete an empty screen page**: Touch to delete the page.

  Screen pages with app icons or widgets on them cannot be deleted.
- **Modify screen page order**: Touch and hold the screen page you want to move, then drag it to the desired position.
- **Set a default home screen page**: Touch in the upper part of the home screen to set the selected screen page as your default home screen page.

## Set Your Home Screen Wallpaper

Tired of default wallpapers? Set a photo you like as your home screen wallpaper to personalize your home screen.

Open **Settings**, and then go to **Home screen & wallpaper** > **Wallpaper**. You can:

**Set a picture as your home screen wallpaper**: Touch **Gallery** or select a preset wallpaper in your device, and follow the onscreen instructions to select **Lock screen**, **Home screen** or **Both**.

**Set a photo as your wallpaper from Gallery**: Have a great photo you want to set as your wallpaper? In **Gallery**, open the photo that you like, go to > **Set as** > **Wallpaper**, and follow the onscreen instructions to set the photo as your home screen wallpaper.

## Manage Your Home Screen Widgets

Want to quickly add widgets such as screen lock, weather, notepad, clock, contacts, or calendar to your home screen? You can add, move or delete home screen widgets to tidy up your home screen and ease your usage experience.

**Add widgets**: Pinch in with your fingers on the home screen to enter home screen editing mode. Touch **Widgets**, touch and hold a widget and drag it to an empty area on the home screen, or touch the widget you want.

Check that there are enough empty spaces on the home screen for the widget. If there is not enough space, add an empty screen page or free up some space on the current home screen page.

**Delete widgets**: Touch and hold a widget on the home screen until your Phone vibrates, and then select **Remove**.

**Move widgets**: Touch and hold a widget on the home screen until your Phone vibrates. Drag the widget to any position on the screen.

## Use App Drawer to Store Apps

Want to store your apps in one location on your home screen to make your home screen look cleaner? You can enable app drawer on your home screen to store all your apps and free up space on your home screen.

Open **Settings**, go to **Home screen & wallpaper** > **Home screen style**, and select **Drawer**. If you want to switch back to a standard home screen, select **Standard**.

**Add an app icon from app drawer to the home screen**: After you enable app drawer, touch on the home screen to enter the app list. From the app list, touch and hold the app icon that you want to add until your Phone vibrates, and then drag it to the desired position on the home screen.

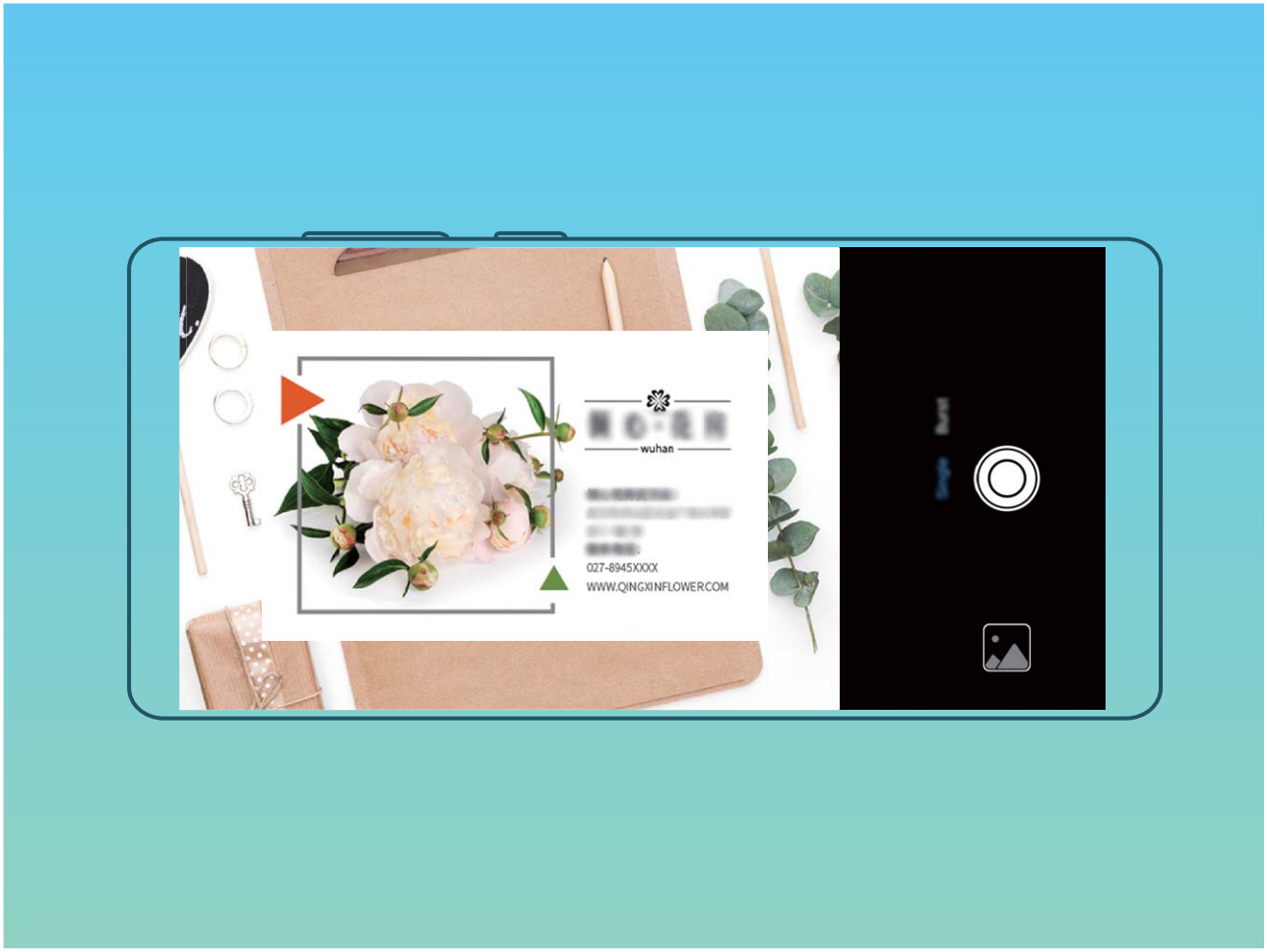
# Contacts

## Managing Business Cards

### Scan Business Cards to Add Them to Contacts

Open **Contacts**, go to **Business cards** > **Scan**, and you can:

- **Scan a single business card**: Place the business card on a flat surface and adjust the camera's focus frame so that the contents on the business card are clearly displayed in the viewfinder, then touch .



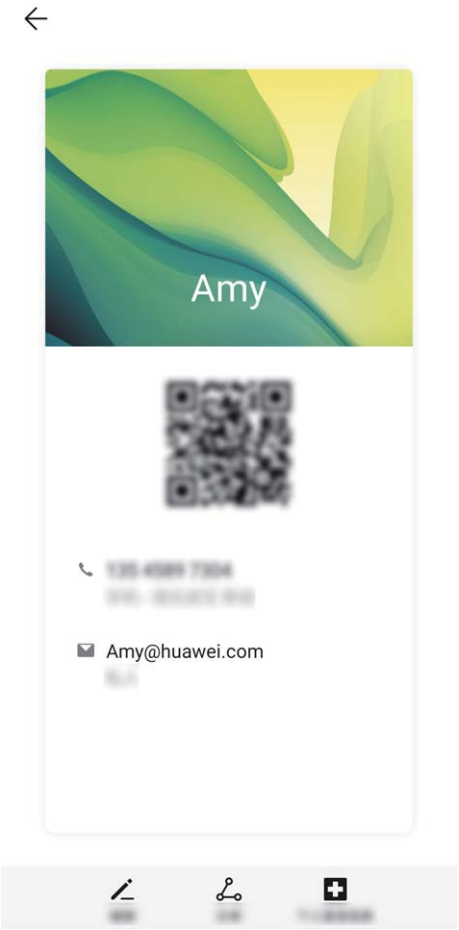

- **Scan multiple business cards**: Switch to **Multiple** mode and follow the onscreen instructions to capture multiple business cards.

The information on the business cards will be automatically converted into contact information and saved in **Business cards** in your Phone.

To view a business card you have saved, open **Contacts**, select scanned contacts, then go to **Details** > **View business card**.

### Share Contacts Using Electronic Business Cards

**Share your business card**: Open **Contacts** and touch **My card** to set your profile picture and enter your name, work address, telephone number, and other information. Then touch ✓ and your device will automatically generate your QR code business card. You can share your business card directly using the QR code. Alternatively, touch , select a sharing method, and follow the onscreen instructions to share.




**Share contacts**: Open **Contacts**, select the contact you want to share, and touch the QR code icon in the upper right corner to share the contact using the QR code. You can also touch **Share**, select a sharing method, and follow the onscreen instructions to complete the sharing process.

If the other party's device supports QR code analysis, they can directly take pictures of or scan QR codes to add contacts.

## Search Contacts

Open **Contacts**. Use any of the following search methods:

For better results, make sure your device is displaying all contacts. From the contacts list screen, go to > **Settings** > **Display preferences** and touch **All contacts**.

- Drag the index on the right to quickly scroll through the contacts list.

- In the search bar at the top of the contacts list, enter the contact's name, initials, phone number, or email address. The search results will be displayed below the search bar. Enter multiple keywords for your search, such as "John London", to quickly find matching contacts.

# Managing Contacts

## Import and Export Contacts

When you switch to a new Phone, you'll need to transfer your existing contacts.

Open **Contacts**, go to > **Settings** > **Import/Export**, and then select one of the following:

- **Import contacts**: Select **Import from storage**, **Import via Bluetooth**, or **Import from SIM** and follow the onscreen instructions.
- **Export contacts**: Select **Export to storage** or **Share contacts** and follow the onscreen instructions. By default, .vcf files exported through **Export to storage** are saved in the root directory of your device's internal storage. Open **Files** to view exported files.

## Manage Your Contacts

The Contacts app includes a host of features for managing contacts. Simplify your contacts list by viewing contacts on your Phone or SIM card only. Favorite contacts to find them easily.

**Merge duplicate contacts**: Use the **Merge duplicate contacts** function to merge duplicate contacts. From the contacts list screen, go to > **Settings** > **Organize contacts** > **Merge duplicate contacts**. Select the contacts you want to merge and touch **Merge**.

**Display contacts for different accounts**: From the contacts list screen, go to > **Settings** > **Display preferences**, and select the accounts for which you want to display contacts. You can also:

- **Enable Simple view**: Go to > **Settings** > **Display preferences**, and enable **Simple view**.
- **View contact storage space**: Go to > **Settings** > **Display preferences**. The **Accounts** area displays the total and available storage space on your SIM card.

**Delete contacts**: From the contacts list screen, touch and hold the entry you want to delete, then touch **Delete**. To delete contacts in batches, go to > **Settings** > **Organize contacts** > **Delete multiple contacts**, select the entries you want to delete, then touch .

## Manage Contact Groups

Want to send a message to a group of colleagues or host a get-together? Smart groups automatically groups your contacts by company, city, and most recent contact time, so you can quickly send a group email or message.

**Create a contact group**: From the groups list, touch , enter the group name (such as Family or Friends), and then touch **OK**. Follow the onscreen instructions to add contacts, and then touch .

**Send a message to smart group contacts**: From the groups list, from the **Smart groups** section, open a group and touch to send a message or to send an email.

**Edit a group**: From the groups list, select the group you want to edit and touch to add a contact, or touch for **Remove members**, **Group ringtone**, **Delete group** or **Rename**.

**Delete a group**: From the groups list, touch and hold a group, and then touch **Delete**.

## Add Contacts to the Blocklist or Trustlist

Add contacts to the blocklist to avoid receiving nuisance or spam calls. Add contacts to the trustlist to receive calls only from numbers on this list.

To add a contact to the blocklist, open **Contacts**, touch the contact, then go to > **Block contact**. All calls and messages from this contact will be blocked.

You can also add contacts to the blocklist in **Optimizer**. Go to **Blocked** > > **Blocklist**, touch , and add the contacts you want to block.

To add contacts to the trustlist, open **Optimizer**, go to **Blocked** > > **Trustlist**, touch , and add the desired contacts.

When **Block all incoming calls** is enabled, all calls, including those from the trustlist, will be blocked.

**View contacts in the blocklist**: Open **Optimizer**, and go to **Blocked** > > **Blocklist**.

**View contacts in the trustlist**: Open **Optimizer**, and go to **Blocked** > > **Trustlist**.

**Remove a contact from the blocklist**: Open **Contacts**, touch the contact you want to remove from the blocklist, then go to > **Remove from blocklist**.

You can also remove a contact from the blocklist in **Optimizer**. Go to **Blocked** > > **Blocklist**, then touch and hold the desired contact to remove it.

**Remove a contact from the trustlist**: Open **Optimizer**, go to **Blocked** > > **Trustlist**, then touch and hold the desired contact to remove it.

## Erase Call and Message Records

Use Erase traces to erase call and message records for a contact to protect your privacy.

Open **Contacts**, select a contact with a call record, and go to > **Erase history** > **Erase**. After that, all of your call and message records for that contact will be erased.

# Dialing

## Basic Calling Functions

### Make Calls

On the dialer screen of your Phone, enter part of the phone number, the first letter of the contact's name, or the contact's initials to find a contact.

Open **Phone**. From the dialer screen, enter the phone number, the first letter of the contact's name, or the contact's initials (for example, enter "jl" for John Lucas) to find a contact. Touch the contact you want to call from the list. If you are using a dual-SIM device, touch or to make the call. Touch to hang up.

You will be prompted to paste recently copied phone numbers when you enter the dialer screen.

**Press the Power button to hang up**: If a number has been dialed accidentally and the call screen is hidden, you can still hang up quickly. The **Power button ends call** feature hangs up the call when the Power button is pressed. On the **Phone** screen, go to > **Settings** > **More**, and enable **Power button ends call**.

### Make Emergency Calls

In an emergency situation, if your Phone is powered on and in service, emergency calls can be made even if the screen is locked or there is no reception.

The emergency call feature is subject to local regulations and your Internet service provider. Network or environmental factors may affect emergency call performance. In emergency situations, do not rely on your Phone as your only method of communication.

Open **Phone** or touch **Emergency** on the lock screen, enter a local emergency number, and touch . Strong mobile reception and an Internet connection with location services enabled will allow your location to be displayed on your Phone for reference.

### Enable Call Waiting to Never Miss Important Third-Party Calls

Receiving an incoming call while you're already on a call? Call waiting allows you to answer the new call and then switch between the two calls.

Some carriers may not support this feature.

Open **Phone**, go to > **Settings** > **More**, and enable **Call waiting**. When receiving another call, touch to answer the call and place your first call on hold. Touch or the call on hold in the call list to switch between calls.

### Enable Call Forwarding and Never Miss a Call

If you are unavailable to answer calls, you can set your device to forward calls to another number.

Some carriers may not support this feature.

Open **Phone**, and go to > **Settings** > **Call forwarding**. If you have a dual-SIM device, in the **SIM 1** or **SIM 2** section, touch **Call forwarding** and select a forwarding method. Enter the number you want to forward your calls to, then confirm. When call forwarding is enabled, your device will automatically forward eligible calls to the preset number.

### Delete Call Logs

You can delete call logs that you no longer need.

Open **Phone** and touch to hide the dialpad. You can now perform one of the following:

- **Delete a single record**: Touch and hold an entry, then touch **Delete entry**.
- **Delete multiple records**: Go to > **Delete entries**, select the entries you want to delete or **Select all**, then touch .

### Use International Roaming

When you travel abroad for work or a holiday, you can make calls when your Phone is roaming without having to dial the country code.

1 Contact your mobile carrier to enable the international toll or international roaming service.

2 Open **Phone** or **Contacts** to make a call.

## VoLTE

### VoLTE: Make Calls and Use Data at the Same Time

VoLTE (Voice over LTE) allows both call and data services to be carried on the same 4G network, which means you can use the Internet even while making calls. VoLTE also provides you with shorter call connection times and higher quality voice and video calls.

Both of your Phone's SIM card slots support 4G, VoLTE, and VoWiFi, so there is no need to switch SIMs back and forth.

- **Dual 4G**: Both of your Phone's SIM card slots support 4G.
- **Dual VoLTE**: Both of your Phone's SIM card slots support VoLTE, allowing you to use the Internet while making HD calls.
- **Dual VoWiFi**: Both of your Phone's SIM card slots support VoWiFi, which allows calls to be made using Wi-Fi. You can use VoWiFi to make calls even in Airplane mode.

Some carriers may not support this feature.

### Enable VoLTE to Enjoy HD Calls

- Some carriers may not support this feature.
- Only dual-SIM phones support both SIM card slots enabling 4G, VoLTE, and VoWiFi.

Open **Settings**, and go to **Wireless & networks** > **Mobile network**. In the settings section for SIM 1 or 2 (if supported by your carrier network), you can:

- **Enable 4G**: Turn on **4G**. The **4G** switch may be unavailable for your device due to your carrier's settings. This indicates that the 4G network is enabled by default.
- **Enable VoLTE calling**: Turn on **VoLTE HD calls**.
- **Enable Wi-Fi calling**: Turn on **Wi-Fi calling**.

After the setting is complete, select the contact you want to call and touch to make a video call.

You can also touch on the screen during a voice call to switch to a video call.

## Use VoWi-Fi for a New Calling Experience

You can use **VoWi-Fi** to make voice and video calls in any location that has a Wi-Fi network, even when there is no mobile network reception.

This feature must be supported by your carrier. Contact your carrier for more information, including fees and charges.

Open **Phone**, go to > **Settings** > **Wi-Fi calling**, enable **Wi-Fi calling**. Touch **Mode** and follow the onscreen instructions to set the preferred network.

# Camera

## Basic Camera Functions

### Use Basic Camera Features

Learn about the basic features of your camera to take better photos.

Open **Camera**. In the viewfinder, touch or press the Volume down button to take a photo.

**Select a camera mode**: Open **Camera** and choose a preinstalled camera mode in the lower part of the screen.

**Adjust the focal length**: In the viewfinder, spread two fingers to zoom in or pinch two fingers to zoom out. When the distance between your device and shooting object is greater than the optical zoom of the camera, the photo quality decreases. When zooming in or out, a zoom bar will appear on the side of the screen. You can also adjust the zooming level with the zoom bar.

**Adjust the exposure**: Your camera will adjust its exposure automatically depending on the ambient light level. The larger the exposure, the brighter the picture. To manually adjust the exposure, touch the viewfinder screen and drag the icon up or down.

**Turn on or off the flash**: When taking photos in a dark environment, turn on the flash to increase the ambient brightness. In the viewfinder, touch to select one of the following flash modes:

- **Auto**: The camera automatically determines whether to turn on the flash according to the ambient light.
- **Off**: The flash is disabled.
- **On**: The flash is enabled.
- **Always on**: The flash is always on.

**Enable or disable AI camera**: In the viewfinder, touch to enable or disable **AI camera**.

### Use Camera to Record Videos

Use Camera to record videos, making your memories more vivid.

**Record a video**: Go to **Camera** > **Video**, then touch to record a video.

- On the **Video** screen, go to > **Resolution** to select a preferred resolution.
- **Stabilizer** is supported during video recording at any resolution.

**Take a picture while recording**: Touch to take a picture while recording.

**Zoom in or out**: Touch and hold the viewfinder screen with two fingers, then spread your fingers to zoom in or pinch them to zoom out. When zooming, a zoom bar will appear. You can slide it to zoom your camera in or out.

**Keep the flash on while filming**: When recording a video in dim light, touch , and select to keep the flash on.

**Shoot an AI video**: Touch , and select effects such as **AI color** or **Background blur** to film an AI video.

During recording, you can touch to take a photo with AI filming effects.

**Add watermark to a video**: On the **Video** screen, touch , and enable **Add watermarks**.

## Adjust Camera Settings

Open **Camera** and touch to access the **Settings** screen. From here you can:

- **Adjust the camera resolution**: Touch **Resolution** and select the desired resolution.
  This feature is not available in some modes.
- **Enable Location tag**: Enable **Location tag** to tag your location in photos.
- **Disable shutter sound**: Enable **Mute**.
- **Capture smiles**: Enable **Capture smiles**. The camera will take a photo automatically when it detects a smile in the viewfinder.

## Use an Assistive Grid to Compose Your Photos

Avoid skewed and off-center photos. Use your camera's assistive grid feature to help you line up the perfect shot.

Open **Camera**, touch to enter the **Settings** screen, and enable **Assistive grid**. Grid lines will now appear when you take photos. The four intersecting points on the grid are the focus areas of the picture. Place the subject of your photo on one of the intersecting points to achieve a good composition.

### Get Closer with Super Macro

Open **Camera** > **More** > **Super macro**. Gradually move your camera close to the subject under **Super macro** mode while holding your device steady. Then touch ◯ to take a photo.

### Use Wide Aperture Mode to Highlight Your Shooting Subjects

Wide aperture mode produces photographs with a shallow depth of field. This creates a blurred background that lends greater emphasis to the photo's subject.

**Take a wide aperture photo**: Go to **Camera** > **More** > **Aperture**. When shooting, touch the screen to select a focal point, and then touch ◯ to take the photo.

- For optimal results, ensure that the subject is positioned no more than 2 m away from the camera.
- Touch and swipe left or right on the slider to adjust the aperture level. The smaller the aperture value, the more blurred the background will appear.

## AI camera, Intelligent Photo Scene Identification

**AI camera** can automatically identify your current photography scene and intelligently adjust the color and brightness of the photo, so you don't need to repeatedly adjust your camera for the perfect shot.

**AI camera** is a preset camera feature on your Phone that intelligently identifies your current photography scene and automatically adjusts the color and brightness of your photo to help you achieve better effects.

**AI camera** provides you with the following features:

- **Intelligently identifies photographing scenes and improves photo effects**: **AI camera** supports multiple scenes, such as the stage, beach, blue sky, greenery, and text scenes. After smart identification, **AI camera** automatically adjusts the color and brightness of the camera and recommends an optimal mode (such as the portrait, greenery, or text mode) to improve photo effects.
- **Enable AI camera to automatically configure and adjust camera settings**: When you open the camera and enter Standard camera mode, touch AI to enable **AI camera** as required. Once enabled, this feature will intelligently identify the photography scene, which saves you the trouble of repeated manual adjustments.

- **AI camera** is automatically disabled when you switch to Portrait mode, Wide aperture mode, or Moving picture mode.

## Use AR lens to Shoot Interesting Photos

Use **AR lens** to make your photos fun and stand out.

Go to **Camera** > **AR lens**.

There are several effects to choose from to make your photos stand out:

- **3D Qmoji**: Touch **3D Qmoji**, and select an animated Qmoji. The Qmoji will then mimic and act out your facial expressions and actions accordingly. Touch to record, or touch GIF, then touch and hold to create your own personalized Qmoji.
- **Add makeup effects to a photo or video**: Touch **Effects** to select your desired dynamic sticker. Then touch to take a photo or touch to shoot a video with the sticker. Some animated stickers have sound effects that will be automatically added to the video.

Touch to add beautification effects and adjust the beauty level.

## Use Portrait Mode to Shoot Like a Pro

Go to **Camera** > **Portrait**, adjust the following settings, then touch to take a portrait.

- **Blur effect**: Touch the icon in the viewfinder and select a blur effect.

A light source (such as a neon or street light) in a relatively well-lit background will contribute to a better blur effect.

- **Beauty effect**: Touch in the viewfinder and drag the slider to adjust beauty settings. A larger value will produce a more distinct beauty effect.

  To disable the beauty effect, touch the icon in the viewfinder and drag each setting to its lowest value.

# Panorama

## Use Panorama Mode to Take Panoramic Selfies

1. Open **Camera** and touch to switch to the front-facing camera.
2. Go to **More** > **Panorama**.
3. Hold your Phone steady and touch to take the first picture.
4. Follow the onscreen instructions and pan your Phone horizontally until the blue frame overlaps with the square screen frame. Your camera will automatically take another picture.
5. Follow the onscreen instructions again and pan your Phone in the opposite direction until the blue frame overlaps with the square screen frame. Your camera will automatically take the last picture.
6. Once complete, the camera will automatically combine the three pictures into a panoramic selfie.

## Use Panorama Mode to Take Panoramic Photos

Panoramas provide a wider viewing angle than ordinary photos, letting you take sweeping landscape shots.

To capture a panorama shot, the camera takes multiple photos of objects within our visual field and stitches them together into a single photo.

When taking a panorama, find a wide, open space that is some distance away from the subject and try to avoid backgrounds that are all in one color.

1. Go to **Camera** > **More** > **Panorama**.
2. Touch at the bottom of the screen to configure the shooting direction.
3. Hold your Phone steady, and then touch to start shooting. Slowly move the Phone in the direction indicated, holding the device steady and ensuring that the arrow stays level with the center line.
4. Touch when you are finished. The camera will automatically stitch the photos together to create a panorama.

# Pro Mode

## Use Pro Mode to Take Scenic Photos

Go to **Camera** > **More** > **Pro**.

**Adjust metering based on the subject of the shot**: On the Pro mode screen, touch and select a metering mode accordingly.

| Metering Mode | Application Scenario |
|---|---|
| **Matrix** | The subjects are broad landscapes and seas. |
| **Center** | The subject is in the center and stands out from the background. |
| **Spot** | The subject to be highlighted is relatively small, such as a flower or a tree. |

**Adjust brightness based on the shooting environment**:

- **Adjust ISO**: On the Pro mode screen, touch ISO and adjust the slider.

  To avoid excessive image noise, an ISO value below 400 is recommended. The recommended ISO value for the daytime is between 100 to 200, but may exceed 400 for some night scenes.

- **Adjust shutter speed**: On the Pro mode screen, touch S (shutter speed) and adjust the slider.

  The recommended shutter speed for static scenes (such as mountains) is between 1/80 and 1/125 of a second. For moving scenes (such as waves), select a relatively fast shutter speed and use a tripod for best results.

- **Adjust EV compensation**: On the Pro mode screen, touch EV and adjust the slider.

**Adjust AWB**: On the Pro mode screen, touch AWB and adjust the slider.

- When shooting in bright sunlight, select . In low light environments, select .
- Touch to adjust the color temperature. If you want to give your photo a warm, cozy, nostalgic tone, increase the K value. For a cool, calm, or futuristic tone, reduce the K value.

**Select Focus mode based on the subject of the shot**: On the Pro mode screen, touch AF and adjust the slider.

| Focus Mode | Application Scenario |
|---|---|
| **AF-S mode** | Static scenes (such as mountains) |
| **AF-C mode** | Moving scenes (such as flowing water and waves) |
| **MF mode** | Protruding objects (such as a close-up of a flower) |

**Keep your device steady when shooting**: On the Pro mode screen, touch and enable **Horizontal level**. A horizontal guiding line will appear on the viewfinder. If a dotted line appears, the camera is not yet parallel with the horizontal level. When the dotted line overlaps with the solid line, the camera is now parallel with the horizontal level.

- In Pro mode, changing a specific setting will sometimes cause other settings to change as well. Adjust them according to your actual requirements.
- The recommended settings above are for reference only. Adjust them according to actual usage conditions to achieve your desired effect.

## Use Pro Mode to Capture Portraits

Want to take more professional portraits? The Pro mode allows you to adjust your camera settings to shoot professional portraits.

Open **Camera** > **More** > **Pro**.

**Select a Metering mode**: or mode is recommended for taking portraits. Place your shooting subjects (their faces for example) in the center of the viewfinder.

**Adjust brightness based on the shooting environment**

- **Adjust ISO**: To avoid excessive noises, it is recommended that you adjust the ISO to a low level when shooting portraits. You may adjust the ISO based on the actual shooting environments.

| Shooting Environment | Recommended ISO |
|---|---|
| **Outdoors** | **Between 100 and 200** |
| **Indoors** | **Around 400** |
| **Night scenes** | **Between 400 and 800** |

- **Adjust shutter speed**: The shutter speed should be slow if the ambient light is low and fast when the ambient light is strong. The recommended shutter speed for static portraits is between 1/80 and 1/125. To shoot moving subjects, select a shutter speed at or above 1/125.

- **Adjust EV compensation**: You may increase the EV compensation if the light on the subjects or background is low, and decrease the EV compensation if there is too much light.

**Adjust AWB**: Select AWB depending on the lighting conditions. When shooting under sunlight, you can select . In a low light environment, you can select .

**Adjust Focus**: To better highlight a subject, it is recommended that you use manual focus (MF) when shooting portraits. In the viewfinder, touch to focus on the part (the subject's face for example) you want to highlight.

- In Pro mode, some settings may change after you change a setting. You may adjust them based on your actual needs.
- The recommended settings above are for reference only. You may adjust them based on the actual usage conditions to achieve your desired effect.

# Light Painting Mode

## Light Painting: Shoot Light Trails

Light painting mode automatically sets a slow shutter speed to take long-exposure shots of light trails. This mode produces stunning photos that have an ethereal quality.

Light painting mode offers four creative shooting modes for different subjects and light conditions:

- **Traffic trails**: Captures light trails created by cars at night.
- **Light graffiti**: Captures trails created by a moving light source in low-light conditions.
- **Silky water**: Captures silky-smooth photos of waterfalls and flowing water.
- **Star trails**: Captures stunning photos of star trails in the night sky.

## Use Tail Light Trails to Capture the Lights of the City

Tail light trails lets you create artistic photos of car tail lights at night.

- Shoot from a distance and slightly above your subject for best results. Ensure that car headlights do not point directly at the camera, as this can overexpose the image.
- Place your device on a tripod or solid surface so that it does not move during the exposure.

Open **Camera** > **More** > **Light painting** > **Traffic trails**. Hold your Phone steady, and then touch to start shooting. A preview of the image is displayed in the viewfinder. Touch when you are finished.

## Use Light Graffiti to Create Light Patterns

Light graffiti lets you create patterns or write words by moving a light source in front of the camera.

- Find a dark location away from other light sources and ensure that the subject's silhouette is not visible. Choose a suitably bright light source of an appropriate color, such as a small torch or glow stick.
- Place your device on a tripod or solid surface so that it does not move during the exposure.

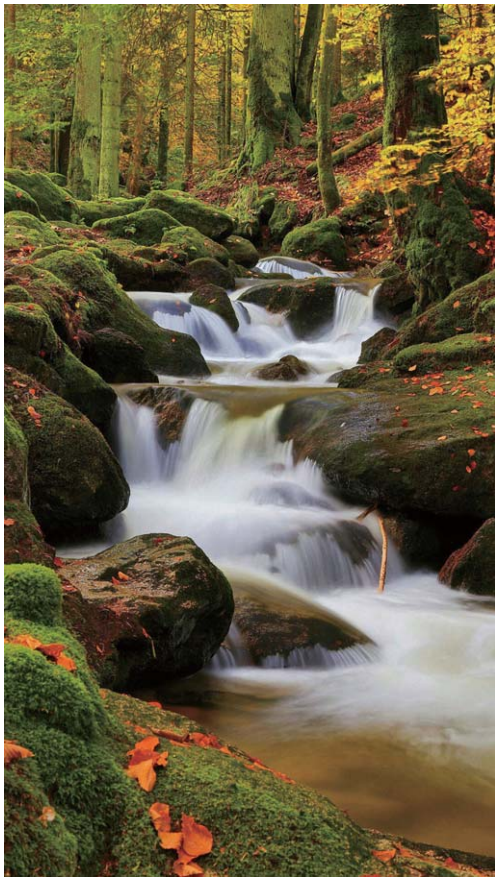
Open **Camera** > **More** > **Light painting** > **Light graffiti**. Hold your Phone steady, and then touch to start shooting. A preview of the image is displayed in the viewfinder. Touch when you are finished.

## Capture Rivers and Waterfalls with Silky Water

The Silky water feature lets you capture silky smooth photos of waterfalls and rivers.

- This feature works best with a stream or waterfall with lots of water.
- Place your device on a tripod or solid surface so that it does not move during the exposure.

Go to **Camera** > **More** > **Light painting** > **Silky water**. Hold your Phone steady, then touch to start shooting. A preview of the image will be displayed in the viewfinder. Touch when you are finished.



## Use Star Track to Capture the Beauty of Stars

Star track allows you to capture the movement of stars in the night sky.

- For best results, choose a clear night in a location free of light pollution with an unobstructed view of the sky.
- Place your device on a tripod or solid surface so that it does not move during the exposure.

Go to **Camera** > **More** > **Light painting** > **Star trails**. Hold your Phone steady, then touch to start shooting. A preview of the image will be displayed in the viewfinder. Touch when you are finished.

# More Capture Modes

## Use Time-Lapse to Create a Short Video

Use Time-lapse mode to capture images over a long period of time and condense them into a short video. Capture and watch nature in its entirety: blooming flowers, drifting clouds, or even star trails against the night sky.

- Recording a time-lapse video continuously for long period of time may consume battery power and use up storage space.
- Place your device on a tripod or flat surface to keep it steady while recording.
- Before you start, ensure that the scene is well lit and the camera is in focus. Position the camera carefully to fit relevant background objects as much as possible.

1 Go to **Camera** > **More** > **Time-lapse**, and touch to start recording a time-lapse video.

2 Touch to finish recording.

3 You can then go to **Gallery** to play your time-lapse video.

For best and optimal result, the recording and playback speeds are automatically adjusted by the system.

## Custom Shooting Modes

Want to discover new ways of using your camera besides the preset functions? You can download or delete shooting modes based on your needs.

**Download more shooting modes**: Open **Camera** > **More** > **Download**. Select the shooting modes to download, and touch **ADD**.

**Update shooting modes**: To update shooting modes, go to the **More** screen. The shooting modes with available updates will have red dots next to them. You can follow the onscreen prompts to update them.

**Delete shooting modes**: Go to **More** > , and touch to delete unneeded shooting modes.

To ensure that Camera works normally, preset shooting modes cannot be deleted.

## Take Moving Pictures

Make your photos more dynamic and fun by taking moving pictures to prolong life's wonderful moments.

With moving pictures, you can record a scene approximately one second before and after pressing the shutter button. When browsing photos in Gallery, view the static picture taken or play a dynamic moving picture effect and sound.

**Take moving pictures**: Open **Camera**, go to **More** > **Moving picture**, then touch to take a moving picture.

**View moving pictures**: Moving pictures will be saved to **Gallery** in JPG format. Go to **Gallery** > **Albums** > **Camera**, touch pictures with the icon, and touch on the top of the picture to view a dynamic effect. The moving picture automatically stops after a complete playback. You can also touch the screen to stop the playback.

**Share moving pictures**: Go to **Gallery** > **Albums** > **Camera**, touch the moving picture you want to share, then touch to select a sharing method.

Moving pictures can be shared directly through Wi-Fi, Bluetooth, Huawei Share, and more. The receiving device must be a Huawei device that supports the capture of moving pictures in order to play the moving picture effect. When you share moving pictures to third-party apps or incompatible devices, moving pictures will be displayed as static images.

# Gallery

## Highlights

### Highlights: Bring Your Memories to Life

Highlights creates albums of your best photos and videos based on time and location information and generates a short video clip so you can instantly relive the good times. You can edit Highlights albums and share the video clips with your friends.

- To start using Highlights, open **Camera**, touch , and enable **Location tag**.
- Check that your Phone is connected to the Internet.
- Highlights albums are created automatically when your Phone is charging, the screen is turned off, and the battery is at least 50% charged. This process may take some time. Highlights albums will not be created if there are fewer than 10 photos or videos in Gallery.

Use Highlights to do the following:

- **Automatically create scenario-based albums**: Highlights creates albums based on different scenarios during a certain period of time or at a certain location (such as a birthday party or graduation ceremony). You will be notified when a new Highlights album is ready.
- **Remind you of great moments**: Get reminded of Highlights albums created during the same time one year ago, or at the same location that you are visiting again.
- **Edit a Highlights album**: Rename an album, add or remove photos, and edit the background music or animations for the video clip. Save and share the clip with your friends.

### Customize Highlights Albums

Highlights creates albums based on time and location information and generates a short video clip so you can instantly relive the good times. You can make a custom Highlights album by choosing your favorite photos and videos, then selecting a video template and the background music.

- To start using Highlights, open **Camera**, touch , and enable **Location tag**.
- Check that your Phone is connected to the Internet.
- Highlights albums are created automatically when your Phone is charging, the screen is turned off, and the battery is at least 50% charged. This process may take some time. Highlights albums will not be created if there are fewer than 10 photos or videos in Gallery.

Open **Gallery**. From the **Highlights** tab, touch the Highlights album you want to view or edit. Now you can do any of the following:

- **Play or edit Highlights**: Touch to play the video. During playback, touch the video to select a preset template at the bottom of the screen. To customize even more, like changing the background

music or filters, touch at the top of the screen. Touch to save and to export. Share what you've created with your friends.

Exported Highlights clips are saved under **Gallery** > **Albums** > **Videos**.

- **Add or delete photos and videos from Highlights**: To add a photo or video, touch , select a photo or video, then touch . To delete, touch and hold a photo or video, touch , then touch **Move**.

  Only videos in MP4 format can be added to Highlights.

- **Share photos and videos from Highlights**: Touch and hold any photo or video in the album, touch , select a sharing method, and follow the steps to complete the process.

- **Rename the album**: Go to  > **Rename** to enter a new name.

- **Delete the album**: Go to  > **Delete**, then touch **Delete**.

# Photo Management

## Photo Recognition Helps You Sort Photos Intelligently

Is sorting your photos taking too long? Are you having a hard time finding the photo you're looking for? Photo recognition can automatically sort your photos into categories such as portraits, locations, scenery, and food in Gallery, so you can quickly find what you're looking for.

Sort photos intelligently: Gallery will automatically sort the photos you take into categories such as portraits, locations, scenery, and food, so you can quickly find what you're looking for.

Customize photo aggregation: After Gallery automatically aggregates different portrait albums for you, you can manually change the album names of portraits and set the relationship (for example, "Baby" and "Mom"). After the setting is complete, you can view different photo albums by name. You can also search for a photo by searching for the name and relationship in the Gallery search bar.

Aggregate group photos into albums: After Gallery intelligently identifies the categories, you can name the generated albums. If there are more than 10 group photos, Gallery will cluster them and generate a group photo album.

## Edit Videos

**Crop a video**: Open **Gallery**, select the video you want to edit, and touch to enter the video editing screen. You can drag the slider in the crop area to select the segment you want to keep, and touch to finish cropping the video.

**Adjust the video resolution**: As you drag the slider to select the video segment you want to keep, you can touch to preview the cropped video. You can also touch the video resolution options on the editing screen to adjust the video resolution.

The higher the resolution, the clearer the video, but also the greater the storage space required. Choose according to your needs.

## Adjust Slow Motion Video Playback

Open **Gallery**, select the recorded slow motion video, and touch to play. Touch the screen and drag the slider in the edit area to select the segment you want to play in slow motion.

## Edit Photos

Crop, rotate, and apply a variety of effects (such as graffiti, custom watermarks, and filters) to your photos in Gallery.

Open **Gallery**, select the photo you want to edit, then touch . Edit the photo in the following ways:

- **Rotate**: Touch and drag the angle wheel to the desired orientation. You can also touch **Rotate** to rotate your photo 90 degrees or touch **Mirror** to flip it.
- **Crop**: Touch and drag the grid or its corners to make your selection. You can also select a fixed ratio and drag the corners of the grid to crop the photo.
- **Add filter effects**: Touch to select a filter.
- **Color splash**: Touch to select the colors you want to highlight. Other parts of the photo will be black and white.
- **Blur**: Touch , select a blur mode, and drag the slider to adjust the blurriness.
- **Adjust photo effects**: Touch to adjust the brightness, contrast, saturation, and other qualities of a photo.
- **Beautify a portrait**: **Beauty** is provided for portraits. Touch to apply features such as **Smooth**, **Blemish**, **Thin face**, and **Enhance eyes** to make a portrait more attractive.
- **Pixelate**: Touch to select a mosaic style and size to censor parts of a photo.
- **Graffiti**: Touch to select a brush and color to add graffiti.
- **Add watermarks**: Touch to select a watermark (such as **Time**, **Location**, **Weather**, or **Mood**).
- **Add a text element**: Touch to select an element style and font format.

## Browse and Share Photos or Videos

All photos and videos are stored in Gallery and can be viewed by time, location, or album.

**View photos in full screen**: Open **Gallery** and touch a photo to view it in full screen mode. Touch the screen again to hide the menu. In full screen mode, you can:

- **View basic information about a photo or video**: Swipe up on a photo or video to view basic information.
- **Zoom in and out**: Spread or pinch together two fingers on the screen to zoom in and out. If a photo has a higher resolution than that of the screen, you can zoom in using two fingers. Once you take your fingers off the screen, the photo can only be enlarged up to twice its original size.
- **View shooting settings**: Touch ⓘ and scroll down to view details about the photo in the pop-up box, including ISO (sensitivity), EV (exposure compensation), and resolution.
- **Rename the photo**: Touch ⋮ > **Rename** to enter a new name.
- **Set the photo as a home screen wallpaper or contact picture**: Go to ⋮ > **Set as**, then select **Wallpaper** or **Contact photo**.

**Share a photo or video**: Open **Gallery**. On the **Photos** tab, touch and hold any item to access the selection screen. Select the items you want to share, touch , then select a sharing method, and follow the steps to complete the process.

**Switch between daily and monthly views**: On the **Photos** tab, separate or pinch together two fingers on the screen to view photos by day or by month.

**View by shooting location**: Photos or videos taken while **Location tag** is enabled (in **Camera** settings) can be viewed in Map view. On the **Photos** tab, touch . Photos or videos containing location information will be marked on the map. Separate two fingers on the screen to zoom in on the map and view details about the shooting location. Touch a photo thumbnail to view all the photos and videos taken at that location.

**View by album**: You can view photos and videos by album. Some photos and videos are stored in default albums. For example, videos recorded with the camera are saved in the **Videos** album. Screenshots and screen recordings are saved in the **Screenshots** album.

## Organize Albums

**Add an album**: From the **Albums** tab, touch **Add album**, name the album, then touch **OK**. Select the photos or videos you want to add.

**Move photos and videos**: Open an album, touch and hold a photo or video you want to move until is displayed, then select all the photos and videos that you want to move. Touch to select the desired album. Once the items are moved, they will no longer be in their original albums.

**Add photos and videos to favorites**: Open a photo or video, then touch . The item will appear in both its original album and the **My favourites** album, and will have a icon on its thumbnail.

**Delete photos and videos**: Touch and hold a photo or album until the icon appears. Select the items you want to delete, then go to > **Delete**. Deleted photos and videos will be temporarily moved to the **Recently deleted** album before being permanently deleted. Days remaining before

deletion are marked on the photos. To permanently delete a photo or video manually, touch and hold its thumbnail in the **Recently deleted** album, then go to > **Delete**.

**Recover deleted photos and videos**: In the **Recently deleted** album, touch and hold a photo or video until the icon appears. Select the items you want to recover and touch to restore them to their original albums. If the original album has been deleted, a new one will be created.

# Optimizer

## Use Optimize

Have you noticed that your Phone has slowed down recently? Do you worry that it might be vulnerable to malware and other security threats? Use Optimize to make your Phone run smoother and protect it from security threats.

Open **Optimizer**, and touch **OPTIMIZE**. Your Phone will automatically optimize its overall performance, security, battery performance, and device management. You can also customize the optimization options. The system will recommend that you use Optimize. This will help you increase running speed, check for security risks, optimize power consumption, and monitor and block unknown phone numbers and harassment calls.

## Manage Mobile Data Usage

Manage mobile data usage to avoid incurring extra charges.

Open **Optimizer** and touch **Data usage** to view data usage statistics or enable **Smart data saver**.

- **Data usage this month**: Check the data usage ranking of apps.
- **Network access**: Manage Internet access permissions for each app.
- **Smart data saver**: Enable the data saver and select the apps that are allowed to use mobile data while running in the background.

## Enable Smart Power Saving Management to Optimize Power Consumption

Smart power saving management helps you effectively extend the battery life of your Phone.

Open **Optimizer** and touch to perform the following:

- **Comprehensive power consumption analysis and optimization**: Touch **Optimize battery usage** to check for power consumption problems and automatically perform optimizations.
- **Enable Power saving mode or Ultra power saving mode**: Enable **Power saving mode** or **Ultra power saving mode** based on your device's battery level to extend battery life. Once **Power saving mode** is enabled, the icon will be displayed in the status bar, depending on the battery level. **Power saving mode** reduces power consumption by limiting background app activity, visual effects and sounds. **Ultra power saving mode** adopts stricter background app control, allowing you to disable all features except wi-fi, mobile data, and any other specified ones.
- **View power consumption details**: Touch **Power consumption details**. In the **Power consumption details** section, colored bars beneath the **Charging** graph indicate when your device

was charging. Gaps between the bars mean it was not charging. This feature does not consume power. Touch **Battery usage** to view power-intensive apps and hardware.

- **Enable smart resolution to save power**: Smart resolution is a function that automatically decreases the resolution of your device to save power. Enable **Screen resolution**, and select **Smart resolution**. Your device will automatically adjust the screen resolution based on the apps that are currently running to save power. Enabling smart resolution may affect image quality. You can also manually set the screen resolution to save power when high resolution is unnecessary.
- **Display remaining battery percentage in the status bar**: Enable **Battery percentage**.

To learn more about power saving settings, open **Optimizer** and go to > **More battery settings**. From here you can perform the following:

**Check power-intensive apps**: Touch **Power-intensive apps**. Disable apps that are not in use.

Once **Performance mode** is enabled, device performance can be enhanced and adjusted to different scenarios. This improves your gaming experience, but also increases power consumption and may cause your device to heat up.

## Use Auto-launch to Prevent Unwanted App Activities

Worried about third-party apps secretly running, occupying system resources, and consuming power in the background? Use Auto-launch to help you identify and prohibit unwanted app activities.

Open **Optimizer**, touch > **App launch**, and you can:

- **Automatically manage apps**: Enable **Manage all automatically** or toggle on the switches for individual apps. The system will automatically analyze app usage and prohibit apps from automatic launch, secondary launch, and background running.
- **Manually manage apps**: If you have not enabled **Manage all automatically**, touch the switch of a desired app and enable or disable automatic launch, secondary launch, and background running accordingly.
- **View launch records**: Go to > **Launch records** to view the detailed launch history for each app.

## Enable Virus Scanner

Accessing unauthorized ads or links may infect your device with Trojans and malware that may secretly install themselves and steal your personal data. Running a virus scan can locate and remove potential threats on your Phone.

**Virus scan** is enabled by default. To view it, open **Optimizer** and touch **Virus scan**. The **Secure** icon indicates that your device is safe. You can also return to the **Optimizer** home screen and go to to configure the following settings:

- **Smart tune-up**: If this option is selected, the system will obtain the latest app configuration data from the cloud to ensure better app performance.
- **Auto-clean junk files**: If this option is selected, the system will automatically identify junk files and permanently delete them after 14 days.
- **Auto-update cleanup database** and **Online virus scan**: Auto-update the cleanup database, or scan for viruses under the conditions of **Wi-Fi only** or **Wi-Fi and mobile data**. Select **Never** to disable these options.

The virus scan reminder is enabled by default. You will be notified if no anti-virus scan has been performed for more than 30 days.

# Email

## Add Email Accounts

Add your email account to your Phone for convenient email access at any time. If you have questions about specific settings while configuring your email, please consult your email account provider.

**Add a personal email account**: Open , select an email service provider or touch **Other**, enter your email address and password, then touch **Sign in** and follow the onscreen instructions to configure your account. The system will automatically connect to the server and check server settings.

**Add an Exchange account**: Exchange is developed by Microsoft and used by companies as their internal email system. If your company email uses Exchange servers, you can log in to your work email on your Phone. Go to > **Exchange**, enter your email address, username, and password, then touch **Sign in** and follow the onscreen instructions to configure your account. The system will automatically connect to the server and check server settings.

After configuration, the system will open the **Inbox** screen by default.

## Manage Email Accounts

You can manage multiple email accounts concurrently on your Huawei Phone.

Open **Email**. You can:

- **Check emails**: On the **Inbox** screen, touch , and then select an email account to view the list of your emails. Swipe down to refresh the list of emails. Open an email to read, reply, forward, or delete it. Swipe left or right on the screen to view the previous or next email. To delete multiple emails, touch and hold an email to go to the email management screen, select the emails, and touch .
- **Sync emails**: Swipe down on the **Inbox** screen to refresh the emails list. Go to > **Settings**, touch an account, and then enable **Sync email**. To sync automatically, touch **Sync frequency** and select the syncing time to complete configuration.
- **Search emails**: On the emails list screen, touch the search bar, and enter a keyword, such as email subject and content.
- **Add multiple email accounts**: Go to > **Settings** > **Add account**, select your email service provider, and enter your information.
- **Switch between email accounts**: On the emails list screen, touch , and then touch an account name to switch to.
- **Configure email accounts**: On the emails list screen, go to > **Settings**, select an account to set **Account name**, **Default account**, and **Remove account**.

# Manage VIP Email Contacts

Worried about missing an important contact's email among a sea of emails? You can add important contacts to the VIP list. Your device will automatically copy emails from VIP contacts to the VIP mailbox.

Open **Email**, and go to > **Settings** > **VIP contacts**. From the **VIP list** screen, go to **Add** > **Create** or **Add from contacts**.

**Add or remove VIP contacts**: On the **VIP list** screen, touch or to manage VIP contacts.

# Create Smart Groups

Tired of having to manually enter multiple recipients when sending emails? Want to send emails to a fixed group of recipients? Use Smart groups to create different email groups.

Open **Email** and open an email. From the sender or recipient field, touch **Add to group**. Select the sender or recipient that you want to add to the group, and touch **OK**. On the group selection screen, touch **Create group**. Enter a group name and then go to **Save**.

After creating a group, from the list of contact groups, select the group you want to edit. You can then:

- **Add members**: Touch to add new members to the group.
- **Send messages**: Touch to send a message or touch to send an email.

# Import Important Events to Calendar

Worried about missing an important event among a sea of emails? You can import important events to Calendar and view them at anytime and anyplace.

Open **Email**, select the event from the email, and select > **Add to calendar**.

# Calendar

## Navigate the Calendar

**Create an event**: Open **Calendar**, touch , and enter your event information, including the title, location, as well as start and end times. By default, you will receive the event reminder 10 minutes before the scheduled start time. You can also touch **Add reminder** to configure the reminder time, then touch .

**Delete an event**: On the **Calendar** screen, touch the event you wish to delete, then touch . To delete multiple events at a time, touch **Schedule**, touch and hold an event to access the selection screen, select the events that you wish to delete, then touch .

**Search events**: On the **Calendar** screen, touch and enter keywords in the search box, such as the event title or location.

**Configure calendar**: On the **Calendar** screen, go to > **Settings** to set the calendar view, reminder mode, and more.

**Check the destination**: Open **Calendar**. On the calendar or schedule screen, touch an event to view its destination information (if there is any).

**Check the weather**: Open **Calendar**. On the calendar or schedule screen, touch an event to view the weather forecast for the event date.

**Check meeting participants**: On the **Calendar** screen, touch a received meeting reminder for information about the participants.

## Import To-Dos to Keep Your Work Organized

Many to-dos cannot be handled in time. What can I do if I forget to handle them? Import each to-do item to Calendar for easy reference and you will not miss any important events.

**Import meeting reminders**: Open **Calendar**, go to > **Manage accounts** > **Add account**, and follow the onscreen prompts to add your work emails (Exchange account) to the calendar to check meeting reminders.

**Share an event**: Touch an event on the calendar or under schedule, then touch and follow the onscreen prompts to share the event using any of the multiple methods.

## View Global Holidays

Traveling overseas for work or holiday? Download your destination country's holiday information ahead of time to better plan your work and schedule.

This feature requires an Internet connection. Connect to a Wi-Fi network to avoid incurring unnecessary data charges.

Open **Calendar**, go to ☰ > **Settings** > **National/Regional festivals**, and enable the corresponding switch for your destination country. Your device will automatically download the holiday information.

# Clock

## Use the Clock

You can find various functions, including alarm, world clock, stopwatch, or timer in Clock.

**View the time all over the world**: Open **Clock**, touch + on the **World clock** tab, and enter the name of a city or select one from the list of cities.

**Display the time in two different regions**: Open **Settings**, and then go to **System** > **Date & time**. Enable **Dual clocks**, and set **Home city** to display the time in the region where you are currently located and the time in your home city on the lock screen.

Two times will only be displayed if you are in a different region than the one you selected as your home city; otherwise you will only see one.

# Notepad

## Manage Your Notes to Keep Your Records in Order

Want to share important notes or add something to favorites? Manage your notes to keep your records in order.

**Share a note**: Want to send your meeting notes to your colleague? On the list page of **All notes** or **All to-dos**, open the note you want to share, then touch to select a sharing method and follow the onscreen prompts.

**Add a note to favorites**: Want to add a note to favorites so you can refer to it later? On the list page of **All notes**, swipe left on a note and touch . Alternatively, open the note you want to add to favorites and touch .

**Delete a note**: Want to delete an outdated note? On the list page of **All notes** or **All to-dos**, swipe left on a note, then touch . Alternatively, touch and hold a note to view options, select the note(s) you want to delete, and touch .

**Search notes**: Want to quickly find a note? Touch the search bar on the list page of **All notes** and enter the keywords into the search bar. Alternatively, swipe down on the home screen to access the search bar, and enter the keywords into the search bar.

**Generate a to-do list**: Want to create a shopping list? On the page of **Notepad**, touch > , enter an item, and then touch **Save**. Add multiple items to generate a to-do list.

After completing an item, go to the editing page of **All to-dos**, and select on the left of the completed item.

**Add a handwritten note**: Want to quickly record your drawing or handwriting? Go to **Notes** > , touch , write your notes, and touch to save it. You can write and draw in Notepad.

**Add tags to notes**: Want to easily view the categories of your notes? On the editing page of **Notes**, touch , and use different colored tags to categorize different content for a clearer view of your notes.

# Utilities

## Check Your Screen Time

Digital balance allows you to check the app usage, helps you manage your screen time and guides you towards healthier Phone usage habits.

To check your Phone usage, open **Settings**, and go to **Digital balance** > **More**.

**Check today's screen time:** Touch **Today**, and you can check your **Screen time**, **App usage**, **Unlocks**.

**Check last seven days' screen time:** Touch **Last seven days**, and then check your **Screen time**, **App usage**, **Unlocks**.

## Use Recorder to Make Audio Notes

Have you ever felt like you do not have enough time to take important notes during a meeting? Do you need to sort out a pile of notes from an interview or class? Recorder lets you record audio files that you can conveniently play back later.

Open **Recorder**, and touch to begin recording. While recording, you can add tags at important points. Touch to finish recording and save the audio file.

After the recording is completed, you can:

- **Play recording from tag**: In the recording file list, touch a recording to go to the play screen. On the play screen, you can then touch a tag that you have added and play the recording from that point.
- **Manage recordings**: Touch and hold a recording for options such as sharing or deleting the recording.

In the recording file list, touch and hold a recording file, and then touch > **Details** to view its storage location.

## Phone Clone

### Data Backup to a USB Storage Device

If you are running out of storage space on your Phone or you want to back up your important data to an external storage device, you can connect your Phone to a USB storage device using a USB OTG cable and back up your data to the storage device. USB storage devices compatible with your Phone include USB flash drives, card readers, and devices with an Memory card inserted.

Open **Settings**, go to **System** > **Backup & restore** > **Data backup** > **External storage** > **USB storage**, then touch **BACK UP**. On the **Select data** screen, select the data you want to back up and touch **Back up**.

## Reset Your Phone

If the operating speed of your Phone starts to slow down due to long-term accumulation of caches and residual files, you can reset your Phone to erase these cached files completely and restore your device's factory settings.

**Reset network settings**: This will restore your Wi-Fi, mobile data network, and Bluetooth settings, including hotspot tethering and Bluetooth pairing information. It won't change other settings on your Phone, or delete any data or files.

Open **Settings**, go to **System** > **Reset** > **Reset network settings**, touch **RESET NETWORK SETTINGS**, and follow the onscreen instructions to reset the settings.

**Restore all settings**: This will restore your device's initial network settings, fingerprint data, face data, and lock screen passwords. It won't reset settings for Find my Phone or HUAWEI ID, nor will it delete any data or files.

Open **Settings**, go to **System** > **Reset** > **Reset all settings**, touch **Reset all settings**, and follow the onscreen instructions to reset the settings.

**Restore factory settings**: This will delete all data in your device's memory and storage, including your account settings, system settings, app data, installed apps, music, images, and documents, and restore your Phone to its original factory settings. Back up your data before restoring your device to its factory settings.

Open **Settings**, go to **System** > **Reset** > **Reset phone**, touch **Reset phone**, enter the screen unlock password (if any), and follow the onscreen instructions to reset the settings.

## Data Backup by Shared Folders to Your Computer or Home NAS Devices

Did you store important data, pictures, or large files on your Phone? You can back up your data to a computer or home NAS device by using a shared folder to prevent data loss and free up storage space on your Phone.

Open **Settings**, go to **System** > **Backup & restore** > **Data backup** > **External storage**, and touch **Scan for shared folders**. After your Phone detects PCs or NAS devices on the same network through Wi-Fi scanning, touch to access a device and add its shared folder. Then touch **BACK UP**, select the data you want to back up in **Select data** and touch **Back up**.

You can touch ⋮ > **Backup encryption** > **Encrypt backups** to enable **Backup encryption** on the backup page, and then set a password when prompted. The password will be used when you want to restore files later. Always remember your backup password or set security questions to help remember the password as you will not be able to retrieve your backup files without it.

# Multiple Users

## Set and Use Multiple Users

Want to have more than one user account on your Phone to keep your work and personal life separate? You can add multiple users to your Phone and switch between them with a single touch.

### Add Users or Guests

⚠ A maximum of three users and one guest can be added.

**Add a user**: Touch **Settings**, and go to **Users & accounts** > **Users**. Touch **Add user**, enter a name for the user and touch **ADD**. After you add a new user, you can switch to the new user and follow the onscreen instructions to configure the user's account settings.

**Add a guest**: Touch **Settings**, and go to **Users & accounts** > **Users**. Touch **Add guest** > **ADD** to create a guest.

**Set a user account name and profile picture**: After adding a user, you can set a user account name and a profile picture for the user. To do this, switch to the relevant user, and touch . Follow the onscreen instructions to change the user name and profile picture.

**Allow a user to make calls, send messages, and share call records**: The basic call functions can still be used after you switch to a different user mode. The added new user can make calls, send messages, and share call records with the phone owner. The guest user can make calls and share call records with the phone owner. To do this, log in with the owner account, and touch **Settings**, and then go to **Users & accounts** > **Users**. Select the desired user, and touch **Allow calls, messages, and sharing of communication history**.

### Delete Users or Guests

To delete a user, select one of the following methods:

- Log in with the owner account, touch **Settings**, and then go to **Users & accounts** > **Users**. Select the desired user, and touch **Delete user** > **Delete**.
- Log in with the owner account, swipe down from the status bar, and then go to > **More settings**. Select the desired user, and touch **Delete user** > **Delete**.

To delete a guest, touch **Settings**. Go to **Users & accounts** > **Users**, and then touch **Guest** > **Delete guest** > **DELETE**.

### Switch Between the Owner Account, User, and Guest Modes

To switch between the owner account, user, and guest modes, select one of the following methods:

- Swipe down from the status bar, and touch . Then, touch the profile picture of the desired user.

- Touch **Settings**, and go to **Users & accounts** > **Users**. Then, touch the user name or profile picture of the desired user.

⚠ You will be prompted to enter the password to unlock the screen when switching back to the owner from another user.

# Device Connection

## Bluetooth

### Connect Your Phone to Bluetooth Devices

Use Bluetooth to connect your Phone to Bluetooth headsets and in-car Bluetooth to navigate or listen to music while you drive. You can also connect your Phone to Bluetooth wearables to record and manage fitness data. Connecting Bluetooth devices to your Phone does not increase power consumption significantly.

**Bluetooth protocols used by Huawei devices and their functions**:

| | |
|---|---|
| HFP, HSP | Make calls |
| A2DP | Play music |
| AVRCP | Control music playback |
| OPP | Transfer files |
| PBAP | Sync contacts |
| MAP | Sync text messages |
| HID | Operate Bluetooth keyboards and mouses |
| PAN | Tethering |
| BLE | Connect to Bluetooth Low Energy (BLE) devices |

**Enable or disable Bluetooth**: From the home screen, swipe down from the status bar, open the shortcuts panel, and then touch to enable or disable Bluetooth. Touch and hold to open the Bluetooth settings screen.

**Pair a Bluetooth device**: Enable **Bluetooth** from the Bluetooth device's settings screen. Check that the Bluetooth device is set to visible. From **Available devices**, touch the device you want to pair and then follow the onscreen instructions to complete pairing.

**Unpair a Bluetooth device**: Enable **Bluetooth** from the Bluetooth device's settings screen. Touch next to the name of the paired device and then touch **Unpair**.

**Change Bluetooth device name**: From the Bluetooth settings screen, enable **Bluetooth**. Touch **Device name**, enter a new name for the device, and then touch **Save**.

**View Bluetooth help**: From the Bluetooth settings screen, touch to view information on how to establish Bluetooth connections with in-car systems, headsets, speakers, wearables, Phone, tablets, and computers.

### Use Bluetooth to Share Data

Connect your Phone to another device over Bluetooth to share data, import and export contacts, and set up Internet tethering.

**Use Bluetooth to send files**: Ensure that your Phone is within Bluetooth range of the other device (10 m or 32 ft). You can then establish a Bluetooth connection and share multimedia files, web pages, contacts, documents between the two devices. Open **Files**, touch and hold the file that you want to send, and then go to **More** > **Share** > **Bluetooth**. Follow the onscreen instructions to enable Bluetooth. When the other device is detected (Bluetooth must be enabled and the device must be visible), touch the name of the device to establish a connection and start sending files.

**Receive files over Bluetooth**: From the home screen, swipe down from the status bar, open the shortcuts panel, and then touch to enable Bluetooth. Touch **Accept** on the file transfer notification to begin receiving the files. Received files are saved to the **bluetooth** folder in **Files** by default.

**Import or export contacts over Bluetooth**: Open **Contacts** and go to > **Settings** > **Import/Export** to perform the following:

- **Import contacts**: Touch **Import via Bluetooth** and follow the onscreen instructions to establish a Bluetooth connection with the other device. Contacts from the other device will then be imported to your Phone automatically.
- **Export contacts**: Touch **Share contacts**, select the contacts that you want to share, touch and select **Bluetooth**. Follow the onscreen instructions to establish a Bluetooth connection with the other device. Those contacts selected will be exported from your Phone to the other device automatically.

## NFC

### Introduction to NFC

Near Field Communication (NFC) is a technology that enables short-distance wireless communication. Through NFC's contactless communication, two devices can transfer data in real time when they are within 10 cm (4 inches) of each other. In addition to data transfer, NFC also allows you to make payments.

NFC can be used in multiple scenarios with different requirements and methods.

**Point-to-point mode**: Transfers data between two NFC-enabled devices within a short distance. No pairing is required and a more secure connection is established.

**Scenarios**

- Transfer files (such as images, apps, and contacts).
- Quickly establish a connection between devices (like Bluetooth pairing or hotspot sharing).

**Limitations**

- Both devices need to support NFC.
- During data transmission, devices must be within 10 cm (4 inches) of each other.
- Screen must be on and unlocked when using NFC.

**Read/Write mode**: Supports reading and writing NFC tags.

**Scenarios**: Check product information with NFC tags.

**Limitations**

- Cards and products must support reading and writing NFC tags
- **Read and write/P2P** must be enabled on the NFC settings screen if available. This feature may vary depending on your carrier.

**Card emulation mode**: Allows your Phone to act as a smart card so it can access mobile ticketing for public transport, and mobile payments.

**Scenarios**

**HCE emulation**: Allows your Phone to act as a QuickPass-enabled bank card by associating your device with a physical bank card in a banking app.

**Limitations**

**HCE emulation**: For example, UnionPay Cloud QuickPass. First download the app for your bank card and associate your card with the app. For details, consult your bank's customer service center. Then enable NFC, set a specific bank app as your default payment app in NFC while keeping the screen on and unlocked. To make Cloud QuickPass payments, your card and the POS device must support QuickPass.

Not all devices support NFC.

## Use NFC to Share Data Quickly

NFC lets you share data across two devices quickly without the hassle of pairing. Simply place the NFC detection areas of both your devices in close proximity to each other, and then you can transfer files and other data quickly between the two NFC-enabled devices.

**Use NFC to send data**: Open **Settings**, touch **Device connectivity** and enable **NFC** and **Huawei Beam**. Select the files you want to send and touch **Share** > **Huawei Beam**. Keep your Phone unlocked and the screen on. Place the NFC detection areas of both devices close together. Once a connection is established, the transmitting device will play an audio alert and minimize the sharing screen. Touch the transmitting device's screen to send files.

**Receive files over NFC**: Open **Settings**, then touch **Device connectivity** and enable **NFC** and **Huawei Beam**. Keep your Phone unlocked and the screen on. Place the NFC detection areas of both devices close together. Once a connection is established, the transmitting device will play an audio prompt. After the prompt, please wait for the file transfer to complete. Received files are saved by default to the **Beam** folder of your **Files**.

- If there is an option to enable **Read and write/P2P** on the NFC screen, ensure that it is enabled. Features may vary depending on your carrier.
- Not all devices support NFC.

## Use NFC to Quickly Establish Connections between Devices.

Place the NFC detection areas of two devices close together to quickly establish a Bluetooth or Wi-Fi connection between them. You can also use this method to establish a Wi-Fi Direct connection or share a Wi-Fi hotspot without searching for devices, pairing and entering connection details manually.

Using Bluetooth pairing as an example, enable NFC, Huawei Beam, and Bluetooth on both devices. Open the Bluetooth pairing screen on both devices and place the NFC detection areas of devices close together. When the sending device plays an audio prompt and content on the screen shrinks, follow the onscreen instructions and touch the screen on the sending device to establish a Bluetooth connection

- If there is a **Read and write/P2P** switch on the NFC screen, ensure it is also enabled. Features may vary depending on your carrier.
- Not all devices support NFC.

# Desktop Mode

## Connect Your Phone to an External Display

**Use wireless projection to connect your Phone to an external display.**

To establish a connection:

- If the external display supports Miracast, you can turn on Wi-Fi on your Phone and connect your Phone to the external display.
- If the external display does not support Miracast, you can use a wireless HDMI adapter to connect your Phone and the display. Insert the wireless HDMI adapter into the HDMI interface of the external display and connect the power cable to the wireless HDMI adapter. After the wireless HDMI adapter is working properly, open **Settings** on your Phone, go to **Device connectivity** > **Easy Projection**, and enable **Wireless projection** to connect your Phone to the network of the wireless HDMI adapter.

You can use different projection modes once the connection is established:

- **PHONE MODE**: In this mode, contents displayed on your Phone and the external display are identical.
- **DESKTOP MODE**: In this mode, you can operate on different screens using your Phone and the external display. For example, display an office app screen on the external display, and chat with your friends on your Phone at the same time.

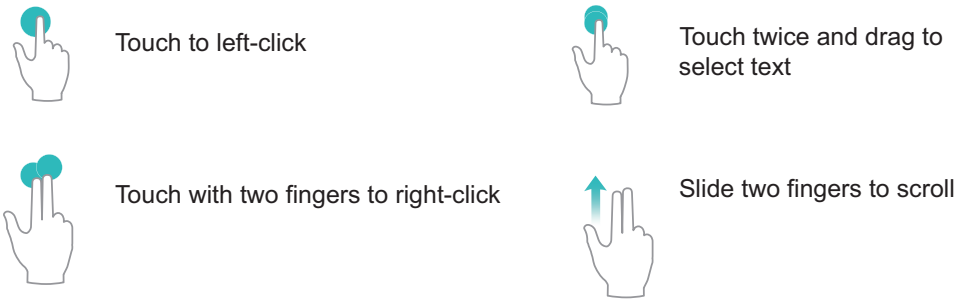
You can swipe down the notification panel, or enter the notification center of the external display to switch between the two modes.

## Use Your Phone as a Touchpad

Now that you've connected your Phone to an external display, what happens if you don't have a keyboard or mouse with you? You can turn your Phone into a touchpad in a few simple steps.

Swipe down from the status bar of your Phone and touch **Touchpad** in the notification panel. Use touch gestures to simulate mouse commands.

- Use touch gestures to simulate mouse commands.




- Enter text using a virtual keyboard when an external keyboard is not connected.

  The virtual keyboard is unavailable when an external keyboard is connected.

### Project Your Phone Screen onto an External Display

**Desktop layout**: Touch the signal status icon in the status bar to open the notification center. Touch the time to display the calendar.

**Multiple windows**: Open multiple windows at a time to multitask.

**File management**: Save files to the desktop, create files or folders, and rename or delete files.

**Quick search**: Search for documents, multimedia files, and apps using the start menu search box.

**Change the desktop wallpaper**: Right-click an empty area on the desktop to change the wallpaper.

**Create app shortcuts**: From the start menu, touch and hold an app and then drag it to the desktop to create a shortcut. You can also right-click an app icon and select the option to create an app shortcut on the desktop.

**Audio output**: You can set the external display or your Phone as the audio output device.

**Large-screen conference**: You can project PowerPoint slides onto a large screen. With the touchpad, laser pointer, and fluorescent pen supported simultaneously, you can write directly on the slides when they are projected on the large screen to make your presentation more vivid.

**Quick app projection**: Touch and hold an app icon on your Phone to display the projection menu. Then you can project and open the app on the large screen.

**Separate management of screens**: The large screen and the screen of your Phone can be used for different purposes. For instance, you can use online chat apps or answer calls on your Phone while watching pictures or films on the large screen.

**Full-screen display of apps**: You can display an app in full screen mode (for example, to play a video or display a document in full screen). To exit the full screen mode, move the cursor to the top of the screen and follow the onscreen instructions to exit.

## Transfer Data between Your Phone and Computer

Use a USB cable to connect your Phone to your computer and transfer data.

**Select USB connection mode**

Use a USB cable to connect your Phone to the computer, you can then select a default connection method. You can transfer photos and files between your Phone and computer, or charge your Phone through the USB connection to your computer.

Swipe down from the status bar to open the notification panel, then touch **Settings** > **Touch for more options** and select a method for connecting your device and your computer.

- **Transfer photos**: Transfer photos between your Phone and computer.
- **Transfer files**: Transfer files between your Phone and computer.
- **Charge only**: Charge your Phone with just a USB cable.
- **Reverse charge**: Connect your Phone to another device with a USB Type-C cable to charge the other device.
- **Input MIDI**: Use your Phone as a MIDI input device and play music on your computer.

**Transfer data over a USB port**

Connect your Phone to your Computer using a USB cable to transfer data and perform other tasks.

- **Transfer files**: Media Transfer Protocol (MTP) is a type of transmission protocol for media files. You can transfer files between your Phone and computer using this connection method. First, install Windows Media Player 11 or later on your computer.
  Swipe down from the status bar to open the notification panel, and then set your USB connection method to **Transfer files**. Your computer will automatically install the necessary drivers. After the installation is complete, click the new drive icon named Phone on the computer to view the files on your Phone. You can use Windows Media Player to view the media files on your Phone.
- **Transfer images**: Picture Transfer Protocol (PTP) is a protocol that allows you to transfer images. You can upload and share photos between your Phone and computer using this connection method.
  Swipe down from the status bar to open the notification panel, and then set your USB connection method to **Transfer photos**. Your computer will automatically install the necessary drivers. After the installation is complete, click the new drive icon named Phone on the computer to view the images on your Phone.
- **Transfer MIDI data to your Phone**: MIDI (Musical Instrument Digital Interface) is an industry standard audio format for composing music established by electronic instrument manufacturers.
  Swipe down from the status bar to open the notification panel, and then set your USB connection method to **Input MIDI**. You can then use Phone to receive and process MIDI messages transmitted by other devices.

# Huawei Share

## Use Huawei Share to Quickly Share Files Between Huawei Devices

You can use Huawei Share to quickly transfer photos, videos and other files between Huawei devices. Huawei Share uses Bluetooth to detect other nearby Huawei devices and then uses Wi-Fi Direct to quickly transfer files without using mobile data.

Huawei Share uses Wi-Fi and Bluetooth to transfer data. When Huawei Share is enabled, both Wi-Fi and Bluetooth are automatically enabled.

**Use Huawei Share to send files**: Select the files you want to share and then touch **Share**. To send files, select a receiving device from the list of nearby devices and confirm.

**Use Huawei Share to receive files**: Swipe down from the status bar to open the notification panel, and then touch to enable Huawei Share. Touch **ACCEPT** when the file transfer notification is displayed. Received files are saved by default to your **Huawei Share** folder in **Files**.

No confirmation is required if the two Huawei devices have been logged in using the same HUAWEI ID.

## Transfer Files Between Your Phone and Computer with Huawei Share

Want to quickly transfer pictures and videos from your Phone to computer (Windows PC or Mac)? Huawei Share makes it simpler than before, without even needing a USB cable.

### From your Phone to your Windows PC

1. To start, make sure your Phone is connected to the same network (for example, the same Wi-Fi network) as your computer.
2. Open **Settings** on your Phone, go to **Device connectivity** > **Huawei Share**, then enable **Huawei Share** and **Computer share**.
3. On the same screen, check and record the **Name shown on computers**, then touch **Verification on computers** to view and record the username and password.
4. On your Windows PC, go to **Computer** > **Network**, double click **Name shown on computers**, and enter the username and password you recorded in the previous step. The Internal storage or Albums folders on your Phone are then displayed on your computer.

   The content of these folders is not automatically saved to your Windows PC, but can be accessed, copied, and saved locally as needed on the computer.
5. You can also edit the files or photos in Internal storage or Albums on your Windows PC, and the changes will be synced to your Phone automatically. Similarly, if you edit any files or photos on your Phone, the changes will be synced to your computer as well.

### From your Phone to Mac

1. To start, make sure your Phone is connected to the same network (for example, the same Wi-Fi network) as your computer.
2. Open **Settings** on your Phone, go to **Device connectivity** > **Huawei Share**, then enable **Huawei Share** and **Computer share**.
3. On the same screen, check and record the **Name shown on computers**, then touch **Verification on computers** to view and record the username and password.
4. On the Mac, go to **Finder** > **Go to** > **Network**, double-click **Name shown on computers**, choose to register a user account, and enter the username and password you recorded in the previous step. The Internal storage or Albums folders are then displayed on your Mac.

   The content in these folders is not automatically saved to your Mac, but can be accessed, copied, and saved locally as needed on your computer.

5 You can also edit the files or photos in Internal storage or Albums on your Mac, and the changes will be synced to your Phone automatically. Similarly, if you edit any files or photos on your Phone, the changes will be synced to your Mac as well.

This function is supported on Mac computers running iOS 10.8 or later.

## One-Touch Printing with Huawei Share

How do I quickly print travel photos, work files, or my children's homework from my Phone? Experience the ease of one-touch printing with Huawei Share.

- Huawei Share now supports one-touch printing for images and PDF files.
- For a list of supported printers, touch **Learn more** in the Huawei Share section (access this section by touching the Share icon on the picture or PDF you want to share), swipe left on the screen, then touch **What printers are supported?** to see the list.

Huawei Share's one-touch printing feature is convenient and easy to use. To start using it, swipe down from the status bar to display all shortcuts, and enable **Huawei Share**, then follow the steps below to pair with different types of printers:

- **Wi-Fi printer/Wi-Fi Direct printer**:

  1 Power on the printer, and make sure that it connects to the same network as your Phone, or that Wi-Fi Direct is enabled.

  2 Preview the file you want to print on your Phone, and then touch **Share**. Once the printer has been discovered, touch its name, and adjust specifications on the preview screen. Then simply touch **PRINT** to print.

- **Bluetooth printer**: Power on the printer, preview the file you want to print on your Phone, and then touch **Share**. Once the printer has been discovered, touch its name, and adjust specifications on the preview screen. Then simply touch **PRINT** to print.

  When pairing the Bluetooth printer for the first time, start by making sure your Phone can find the printer, then press the power button on the printer for 1 second to ensure successful pairing.

# Security and Privacy

## Face Unlock

### Enroll Your Facial Information and Enable Face Unlock

Face unlock allows you to unlock your Phone quickly and securely, without the need of a password.

- Face unlock can only be used when the owner account is logged in. It is not supported by PrivateSpace.
- Face unlock is not available if the lock screen password has not been entered for three or more days in a row, or if your Phone has been remotely locked or restarted.
- When using Face unlock, keep your eyes open, and face your Phone straight on from a distance of 20–50 cm (about 8–20 in.). In order to scan your face accurately, avoid using this feature when you are in a dark environment or facing direct light.

1 Open **Settings**. Go to **Security & privacy** > **Face recognition** and enter your lock screen password.

If you haven't set up a lock screen password, set one first. Besides the 6-digit PIN, you can set up other types of passwords: **Pattern**, **4-digit PIN**, **Custom PIN**, or **Password**.

2 Selecting **Enable pick up to wake** will allow the screen to turn on and unlock when you pick up your Phone and hold it to your face. If you do not need this feature, leave it deselected. Touch **Get started**, and enroll your face.

3 If you are concerned that face unlock may fail due to a change in appearance after makeup or a haircut, or you want to enroll an entirely different face, go to the **Face recognition** screen, touch **Set an alternate look** and follow the onscreen instructions just like you did when registering your face initially.

4 Face unlock modes:

- **Select an unlock method**: On the **Face recognition** screen, touch **Unlock device**. If you select **Direct unlock**, your Phone identifies your facial features and unlocks your screen when the screen is on. If you select **Slide to unlock**, after your Phone identifies your facial features, you can slide the lock screen to unlock. Selecting **Off** will disable Face unlock.
- **Smart display of lock screen notifications**: Enable **Show notifications**. On the lock screen, your Phone hides notification details and displays them only after recognizing the owner's face.
- **Access App lock**: Enable **Access app lock** to access App lock and locked apps using Face unlock.

### Delete Face Data

If you no longer use Face unlock or want re-input your face data, you can delete the current face data.

Open **Settings**, go to **Security & privacy** > **Face recognition**, follow the onscreen instructions and enter the lock screen password, then touch **Delete facial data** and follow the onscreen instructions to delete your current face data.

- Facial data will be erased if you reset all settings, restore your device to its factory settings, or set your password to none.
- Facial data will not be erased after online update.

### Pick Up to Unlock

Open **Settings**, and go to **Security & privacy** > **Face recognition**. When enrolling facial data, select **Enable pick up to wake**, and set the Face unlock method to **Direct unlock**. Once the setup is complete, you can simply raise your Phone to unlock the screen, without a password or fingerprint.

If you haven't selected **Enable pick up to wake** when enrolling facial data, you can open **Settings**, go to **Security & privacy** > **Face recognition**, and set the Face unlock method to **Direct unlock**. Then, open **Settings**, go to **Smart assistance** > **Shortcuts & gestures** > **Wake screen**, and select **Pick up to wake**.

## Fingerprint

### Fingerprint Recognition: Enjoy Faster Navigation and Enhanced Security

The Power button doubles as a fingerprint sensor. It is located below the Volume buttons on the right side of the Phone. Fingerprint recognition not only allows you to unlock your Phone faster, it also provides added security to your personal information.

You can use your fingerprint to:

- **Unlock your screen with a single touch**: Want to avoid the hassle of using PIN codes and patterns to unlock your screen? Use your fingerprint to quickly and securely unlock your screen with a single touch.
- **Access your private files**: Afraid of forgetting your password for the Safe or app lock, or having it fall into the hands of someone you don't trust? Set fingerprint access for the Safe and app lock to keep your files and apps secure and accessible by only you.

## Enroll a Fingerprint to Unlock the Screen

You can enroll a fingerprint on your Phone to unlock your screen, access Safe, or use App lock without a password.

- Fingerprint unlock is only available when your unlock method is set to **Pattern**, **4-digit PIN**, **Custom PIN** or **Password**. When your Phone restarts or your fingerprint is not recognized, you will need to use your lock screen password to unlock the device.
- Before enrolling a fingerprint, make sure your finger is clean and dry.

1. Open **Settings**.
2. Go to **Security & privacy** > **Fingerprint ID** and follow the instructions to set or enter the lock screen password.
3. Once you have done so, touch **New fingerprint** to enroll a fingerprint.
4. Place your fingertip on the fingerprint sensor and hold it there until your Phone vibrates. You can touch it lightly or press down slightly harder, according to your personal preference. Repeat this step using different parts of your fingertip.
5. After enrollment is complete, touch **OK**.

To unlock the screen, simply place your finger on the fingerprint sensor. You can also customize the screen unlock method by going to **Settings** > **Security & privacy** > **Fingerprint ID** > **Unlock when screen is off**, and then selecting **Rest finger** or **Press button**.

- Pressing and holding the fingerprint sensor for 3 seconds will power off your Phone. You are advised not to hold the sensor for too long when using the press to unlock method.
- When the screen is on, simply touch the fingerprint sensor to unlock the screen. If you press the fingerprint sensor, the screen will turn off instead.
- If both fingerprint and facial recognition are enabled, you can use both methods simultaneously to unlock the screen with maximum efficiency.

To set your Phone to vibrate when your fingerprint is not recognized, go to **Settings** > **Security & privacy** > **Fingerprint ID**, and enable **Vibrate when fingerprint is not recognized**.

## Add or Modify a Fingerprint

You can enroll a maximum of five fingerprints on your device. You can also delete or rename your fingerprints.

1. Open **Settings**.
2. Go to **Security & privacy** > **Fingerprint ID**.
3. Enter the screen unlock password and then follow the onscreen instructions to enter the fingerprint configuration screen.
4. In the **Fingerprint list** section, you can:
   - **Enroll a new fingerprint**: Touch **New fingerprint** to enroll a new fingerprint.
   - **Rename or delete a fingerprint**: Touch a previously enrolled fingerprint to rename or delete it.
   - **Identify a fingerprint**: Touch **Identify fingerprint** to identify and highlight enrolled fingerprints.

## Use a Fingerprint to Quickly Access Private Information

Tired of having to enter a password each time you want to access private information in your Safe or a locked app? You can use your fingerprint to quickly access your private information. This method is convenient and safe.

1. Open **Settings**.
2. Go to **Security & privacy** > **Fingerprint ID**.
3. Enter the screen unlock password and then follow the onscreen instructions to enter the fingerprint configuration screen. Enable **Access safe** and **Access app lock**, and then follow the onscreen instructions to enter the passwords.

Now you can:

- **Use a fingerprint to access the Safe**: Open **Files** and touch **Safe**, you can then access the Safe using your fingerprint.
- **Use a fingerprint to access apps locked by App lock**: You can now open locked apps on your home screen using your fingerprint.

# Enable or Disable Location Services

After obtaining the location information permission, apps can obtain your location at any time. If your location information is obtained by a malicious app, you may be at risk of harm or fraud. You can enable or disable location services as needed and regularly monitor and manage the allowed permissions for your apps to protect your privacy and security.

**Enable or disable location services**: Open **Settings**, go to **Security & privacy** > **Location access**, and enable or disable **Access my location**. When location services are disabled, aside for pre-installed software, your Phone will stop all apps and services from collecting and using your location information. The system will ask you to enable location services when you attempt to use these apps.

- Features may vary depending on your carrier.
- Huawei only uses location data to provide you with necessary functions and services, not for the purpose of identifying and collecting your private information.

**Set indoor positioning assistance**: Open **Settings**, go to **Security & privacy** > **Location access** > **Advanced settings**, and enable or disable Wi-Fi and Bluetooth scanning. Scanning Wi-Fi networks and Bluetooth devices will improve the accuracy of indoor positioning.

# PrivateSpace

## Enable PrivateSpace

Do you worry that potentially embarrassing information might be seen by your friends and co-workers when you are showing them photos and other things on your Phone? PrivateSpace lets you store private information in a hidden space within your device that can only be accessed with your fingerprint or password.

You can add up to three users to **Users** and **PrivateSpace** on your Phone. If you have already added three users under **Settings** > **Users & accounts** > **Users** > **Add user**, you cannot add more users to **PrivateSpace**.

**Enable PrivateSpace**: If you are using PrivateSpace for the first time, open **Settings**, go to **Security & privacy** > **PrivateSpace** > **Enable**, and follow the onscreen instructions to create your PrivateSpace.

You can only create one PrivateSpace.

**Quickly switch between MainSpace and PrivateSpace**: From the lock screen, you can quickly switch between spaces using your fingerprint or password. After you restart your Phone, you are required to first enter the MainSpace using your password. You can then switch between spaces from your lock screen.

**Enter PrivateSpace**: You can enter your PrivateSpace directly from the lock screen using your fingerprint or password. Alternatively, open **Settings** in MainSpace, and go to **Security & privacy** > **PrivateSpace** > **Log in** to enter your PrivateSpace.

**Exit PrivateSpace**: After entering your PrivateSpace, open **Settings**, and go to **Security & privacy** > **PrivateSpace** > **Exit**. When you exit your PrivateSpace, all system memory used by the PrivateSpace will be freed. You can still switch back to your PrivateSpace when you need it.

**Delete PrivateSpace**: Deleting your PrivateSpace will permanently delete all apps and data stored within your PrivateSpace and this data will be unable to be restored. You can delete your PrivateSpace in the following ways:

- From the MainSpace, open **Settings**, then go to **Security & privacy** > **PrivateSpace** and touch ⋮ > **Delete PrivateSpace**.
- In PrivateSpace, open **Settings**, and go to **Security & privacy** > **PrivateSpace** > **Delete**.

## Hide the Entrance to Your PrivateSpace

Want to keep all traces of your PrivateSpace hidden from other people? You can hide the entrance to your PrivateSpace in the MainSpace, keeping your PrivateSpace hidden and secret.

After entering your PrivateSpace, open **Settings**, go to **Security & privacy** > **PrivateSpace**, and enable **Hide PrivateSpace**. After you hide the entrance to your PrivateSpace, you can only enter the space by using your fingerprint or password on the lock screen.

## Transfer Files Between PrivateSpace and MainSpace

Quickly transfer private photos, music, or videos between your PrivateSpace and your MainSpace.

1. In PrivateSpace, open **Settings** and go to **Security & privacy** > **PrivateSpace**.
2. Touch **MainSpace to PrivateSpace** or **PrivateSpace to MainSpace**.
3. Follow the onscreen instructions to select files and transfer them to the target location.

   Files stored on your device or NM card can be transferred from your MainSpace to your PrivateSpace. Only files stored locally on your device can be transferred from your PrivateSpace to your MainSpace. Files stored in the cloud cannot be transferred between your PrivateSpace and MainSpace. Not all devices support nano memory (NM) cards.

By default, transferred image files are stored in **Gallery** > **Albums** > **Shared images** in the target space, and video files are stored in **Gallery** > **Albums** > **Shared videos** in the target space.

## Transfer Your PrivateSpace Data to Your New Device

You can clone your PrivateSpace to quickly transfer your private files to another device.

- Before transferring your data, ensure that the new device has enough storage space remaining.
- You can transfer the following data from one device to another: pictures, audio files and videos.

1 Enter PrivateSpace on your new device and open **Settings**. Go to **Security & privacy** > **PrivateSpace** > **Space Clone** > **THIS IS THE NEW PHONE** to generate a QR code.

2 Enter PrivateSpace on your old device and open **Settings**. Go to **Security & privacy** > **PrivateSpace** > **Space Clone** > **THIS IS THE OLD PHONE**. Follow the onscreen instructions to scan the QR code displayed on your new device. Alternatively, connect your old device to your new device's Wi-Fi hotspot manually. After establishing a connection, select and transfer data from your old device to your new device.

You can cancel the file transfer anytime during the transfer process and continue your progress when you re-establish a connection.

### Reset Your PrivateSpace Password

Too many passwords to remember? Can't enter my PrivateSpace without a password? Set a security question so that when you forget your PrivateSpace password, you can answer the security question to quickly reset your PrivateSpace password.

**Enable the security question feature**: After entering your PrivateSpace, open **Settings**, and go to **Security & privacy** > **PrivateSpace**. Touch **Password protection** and follow the onscreen instructions to enter your MainSpace and PrivateSpace passwords to enter the password security question screen.

**Set your security question**: Touch the security question and either select one of the preset security questions or create your own. Enter the answer to the security question and touch **Finish** to enable the security question feature.

After you enable the security question feature, you can also modify the security question and its answer.

**Modify your PrivateSpace password**: Enter the MainSpace, open **Settings**, and go to **Security & privacy** > **PrivateSpace**. Touch ⋮ > **Reset password**. Follow the onscreen instructions to enter your MainSpace password and the answer to the security question, and then set your PrivateSpace password.

You can reset the PrivateSpace password in the MainSpace only after you set the password security question in your PrivateSpace.

**In case the entrance to PrivateSpace is hidden and you cannot enter the reset PrivateSpace screen**: Enter the MainSpace and open **Settings**. Go to **Security & privacy** > **More settings** > **Show all settings** and touch **OK** to display the entrance to PrivateSpace.

## Enable App Lock

App lock allows you to set a password for your important apps. Once you restart your Phone or unlock the screen, you will be asked to enter your App lock password when opening these apps. App lock adds an extra layer of protection for your private information and prevents unauthorized access to important apps on your Phone.

**Enable App lock**: Open **Settings**. Go to **Security & privacy** > **App lock**. When you first access App lock, select **Lock screen password** or **Custom PIN** as your **App lock** verification password. Enter your password as prompted and on the **App lock** screen, toggle on the switch for the apps you want to lock.

**Set your App lock password**: Touch on the **App lock** screen, then touch **Password type**. Select **Lock screen password** or **Custom PIN**.

## Use Password Vault

Password vault saves and fills in your passwords, allowing you to log in to apps on your Phone more conveniently and securely.

**Enable or disable Password vault**: Password vault is enabled by default. After you update your Phone, enable Password vault by performing the following operations:

1. Enter the lock screen password to access the Password vault settings. Open **Settings**, and go to **Security & privacy** > **Password vault**.
2. Enter your lock screen password to access the **Password vault** screen.
3. Enable **Password vault**. When you log in to an app for the first time or after logging out, select **SAVE**, and your username and password will be saved. Next time you log in, use the method you picked, for example Face unlock, to automatically fill in your username and password to log in to the app.
4. Enable or disable **Autofill settings** for individual apps. If the autofill feature is enabled for an app, you can use your face, fingerprint, or lock screen password to fill in the password when you log in. If this feature is disabled, your username and password must be entered manually.

## Introduction to User Data Protection

Worried that your photos, bank account information, or other private data might get leaked if your Phone is lost or stolen? Huawei Phones now feature security chips in addition to the combined protection provided by the trusted root key and lock screen password. Whether your data is stored in a memory card or internal storage, it will receive the highest level of protection.

**Stronger encryption and safeguards**: Huawei Phones use a hardware key that cannot be used to decrypt data when separated from the Phone. Based on the trusted root key, the encrypted components are incorporated into the memory control chip to enhance the data protection capability of the hardware. This works together with your lock screen password to protect your private data. When you use PrivateSpace, Multi-user, encrypted memory card files, or other features to encrypt photos, personal information, or other personal data, others cannot gain access to your data unless the trusted root key, lock screen password, and security chip are simultaneously cracked.

Not all devices support memory cards.

# Wi-Fi and Network

## Wi-Fi

### Introduction to Wi-Fi+

Wi-Fi+ intelligently connects to Wi-Fi networks to save mobile data consumption. When your device detects a known or free Wi-Fi network, it will automatically turn on Wi-Fi and connect to the network. Your device will also automatically select the optimal network in the area for the best Internet connection.

Once you have enabled Wi-Fi+, your device will:

- **Automatically select and connect to the optimal network**: Automatically select and connect to Wi-Fi networks you've previously connected to, free networks, or your mobile data network, depending on the signal strength at your current location.

  You can view the connection status by checking the icons in the status bar:

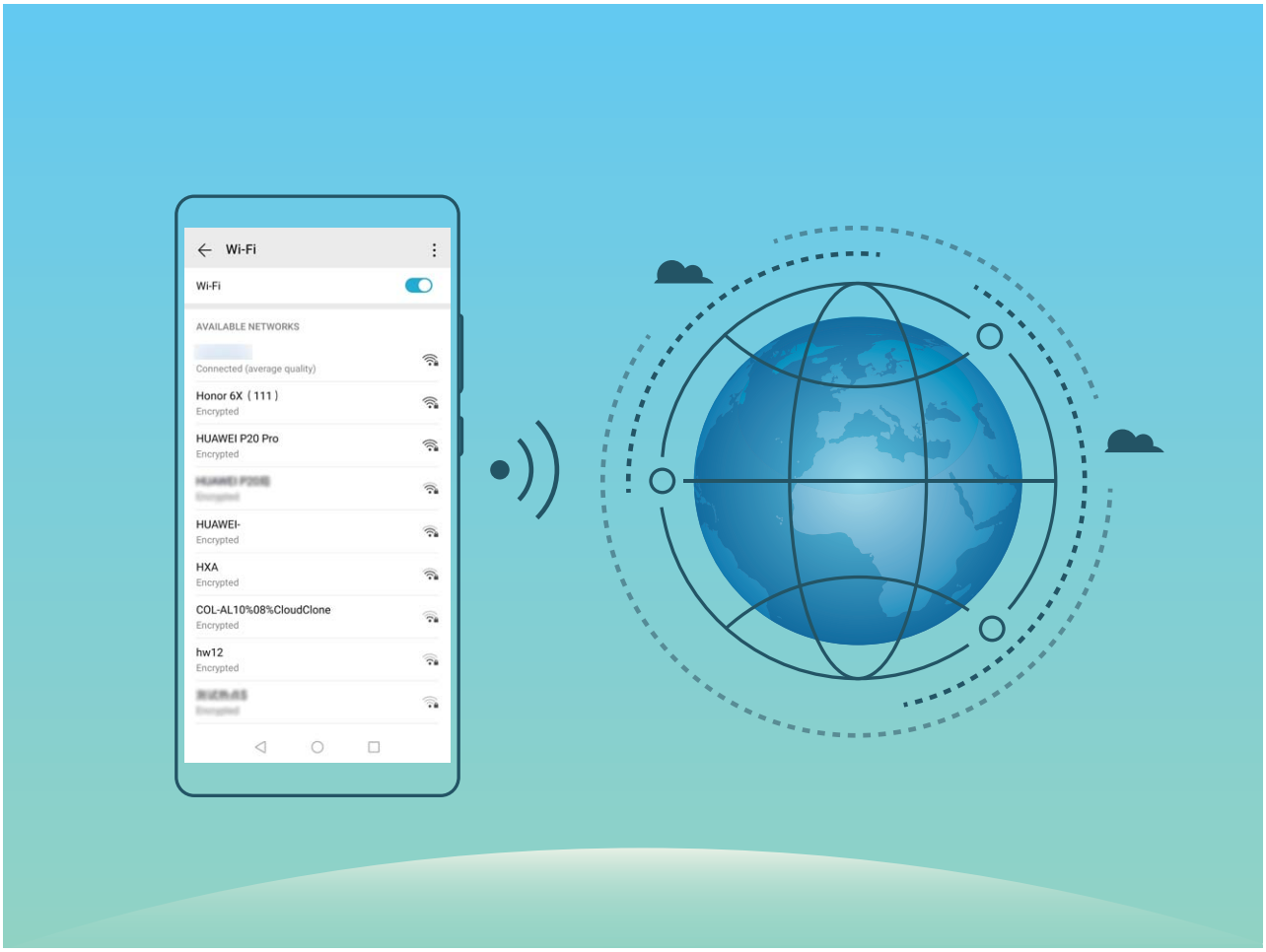
  - The icon indicates that your device is connected to the Internet over Wi-Fi.
  - The icon in the bottom left of the signal bar indicates that your device is connected to the Internet over mobile data.

- **Automatically turn Wi-Fi on:** Depending on the Wi-Fi networks you have connected to previously, Wi-Fi will be automatically enabled in specific locations. This will prevent your device from constantly searching for new networks.
- **Assess the quality of available networks**: Evaluate currently available network hotspots and prevent your device from automatically connecting to networks with no Internet connection.

### Connect to Wi-Fi

By connecting your device to a Wi-Fi network, you can effectively save mobile data.

To avoid potential security risks (such as unauthorized access to your personal data and financial information), please exercise caution when connecting to a public Wi-Fi network.




**Connect to a Wi-Fi Network**: Open **Settings**, go to **Wireless & networks** > **Wi-Fi**, and enable **Wi-Fi**. Touch a Wi-Fi network to access it, and enter the network password or complete the authentication if required. Alternatively, you can scroll to the bottom of the menu, touch **Add network**, and follow the onscreen instructions to add a network hotspot by entering its name and password.

## Share a Wi-Fi Network with Wi-Fi Bridge

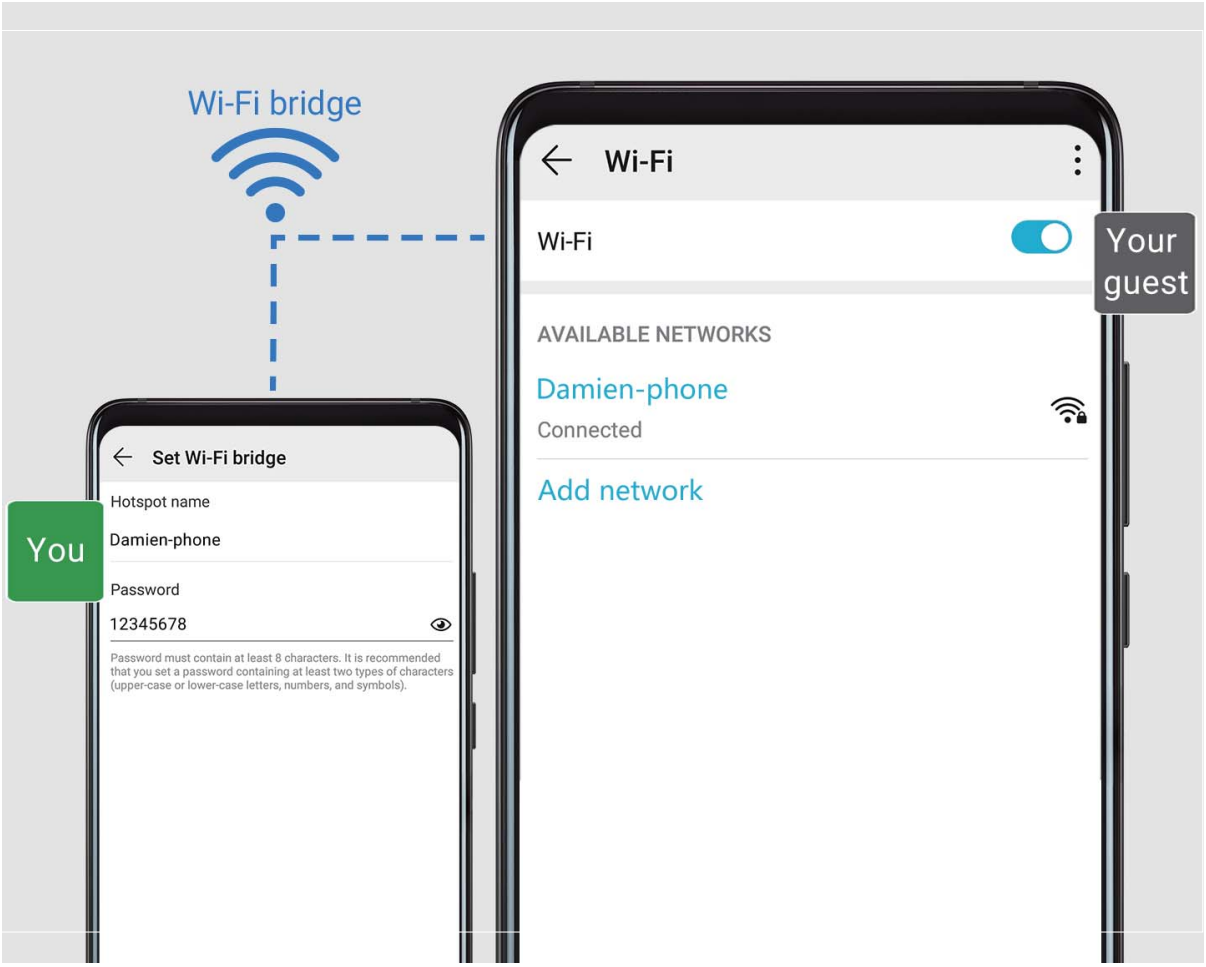
Wi-Fi bridge allows you to share your home Wi-Fi to friends and guests without having to reveal the password to them.

**Enable Wi-Fi bridge**: Open **Settings**, go to **Wireless & networks** > **Personal hotspot** > **More**, and enable **Wi-Fi bridge**.

**Set Wi-Fi bridge**: Touch **Set Wi-Fi bridge** to view or set a temporary name and password for the shared Wi-Fi network.

Once you provide your friends or guests with the temporary name and password, they will be able to connect to the network until the feature is disabled.

Up to 4 devices can be connected to your home Wi-Fi through Wi-Fi bridge at any given time.




## Transfer Data Using Wi-Fi Direct

Wi-Fi Direct allows you to rapidly transfer data between Huawei devices. Wi-Fi Direct is faster than Bluetooth and does not require devices to be paired. It is better suited to transferring large files over short distances.

**Send files with Wi-Fi Direct**: Open **Files**, touch and hold a file you want to send, and go to **More** > **Share** > **Wi-Fi Direct**. When another device is detected, touch its name to establish the connection and begin file transfer.

**Receive files with Wi-Fi direct**: Enable **Wi-Fi**. In the Wi-Fi settings screen, touch ⋮ > **Wi-Fi Direct** to enable detection. When you receive an incoming file prompt, touch **Accept** to begin the transfer. The received file will be saved under **Files** in the **Wi-Fi Direct** folder by default.

## Turn Wi-Fi+ On or Off

Open **Settings**, go to **Wireless & networks** > **Wi-Fi** > ⋮ > **Wi-Fi+**, and choose to enable or disable **Wi-Fi+**.

- Your Phone will automatically connect to the optimal network available after Wi-Fi+ is enabled.
- Wi-Fi+ may automatically switch to your mobile data network, depending on strength of Wi-Fi+ signals in your area. Note that using mobile data to download or view videos and other large files may incur additional data usage fees. To avoid excessive data charges, purchase an appropriate data plan.
- After Wi-Fi+ is enabled, even if Wi-Fi is disabled manually, the device may automatically switch to a Wi-Fi network when it detects a viable Wi-Fi network you have previously connected to.

# Connecting to the Internet

Connect to Wi-Fi networks effortlessly with your device.

### Connecting to a Wi-Fi network

1 Swipe down from the status bar to open the notification panel.

2 Touch and hold to open the Wi-Fi settings screen.

3 Switch on **Wi-Fi**. Your device will list all available Wi-Fi networks at your location.

4 Select the Wi-Fi network you want to connect to. If you select an encrypted network, you will also need to enter the Wi-Fi password.

### Connecting using mobile data

Before using mobile data, ensure that you have a data plan with your carrier to avoid incurring excessive data charges.

1 Swipe down from the status bar to open the notification panel.

2 Touch to enable mobile data.

To save battery power and reduce data usage, disable your mobile data connection when you don't need it.

# Share Your Mobile Network with Other Devices

You can share your mobile data with your friends.

**Use personal hotspot to share mobile data**: Open **Settings** and go to **Wireless & networks** > **Personal hotspot**. Set **Device name** and **Password**, then enable the hotspot to use it.

**Set data limit for shared mobile data**: Go to **Settings** > **Wireless & networks** > **Personal hotspot** > **More**, and touch **Data limit** to set the data limit for a single session. When this limit is reached, your device will automatically disable the hotspot.

**Use Bluetooth to share mobile data**: Connect your device to another device using Bluetooth, then enable Bluetooth tethering to share your mobile data. Open **Settings**, go to **Wireless & networks** > **Personal hotspot** > **More**, and enable **Bluetooth tethering**. On the **Bluetooth** settings screen of the paired device, touch next to the paired device, then enable **Internet access** to establish an Internet connection and share your mobile data.

**Use USB to share mobile data**: Use a USB cable to connect your device to a computer. Open **Settings**, go to **Wireless & networks** > **Personal hotspot** > **More**, and enable **USB tethering** to start sharing your mobile data.

Depending on your computer's operating system, you may need to install device drivers or establish the relevant network connection on your computer before using this feature. Refer to your computer's operating system guide for more information.

# Apps and Notifications

## App Twin: Log In to Two Social Media Accounts at Once

Have you ever wished you could log in to two WeChat and Facebook accounts on your Phone without the hassle of constantly switching between them? App twin lets you log in to two WeChat and Facebook accounts at the same time, allowing you to keep your work and private life separate.

The App twin feature is currently limited to WeChat, QQ Messenger, LINE, Facebook, Snapchat, WhatsApp, and Messenger. Please download and install the latest version of these apps before using the App twin feature.

Touch **Settings**, and go to **Apps** > **App twin**. Enable App twin as required.

When App twin is enabled for an app, two app icons are displayed for the app on the home screen. This means that you can log in to two accounts at the same time. Touch and hold the twinned app icon on the home screen to quickly disable App twin.

## Customize App Permissions to Use Your Phone Your Way

Worried about third-party apps obtaining too many important permissions and disclosing your personal information? You can monitor the permissions of each app and deny unwanted permissions.

Disabling a permission may cause an app function to become unavailable. For example, if the location permission for a map app is disabled, the app will be unable to provide you with location and navigation services.

**Set app permissions**: Want to deny unwanted permissions? Open **Settings**, and go to **Apps** > **Apps**, select the app and touch **Permissions** on the **App info** screen and then enable or disable the unwanted permissions.

**Check and modify permissions**: Want to check which apps are allowed important permissions?

Open **Settings** and touch **Apps** > **Permissions**, select the permission you want to view and touch the switch next to an app to allow or deny the permission for that app.

# Sound and Display

## Set Up Do Not Disturb Mode

Do not disturb mode blocks calls from strangers and only notifies you when you receive calls and messages from chosen contacts.

Open **Settings**, then go to **Sounds** > **Do not disturb** to do the following:

- **Do not disturb**: Touch **Do not disturb** to immediately enable or disable this function.
- **Schedule rule**: Prevent interruptions at set times, such as weekends or evenings. Touch **Scheduled** to set the time period and repeat cycle.
- **Allow calls from important contacts**: Select **Calls**, then select **Contacts only** or **Favourites only**.
- **Allow messages from important contacts**: Select **Messages**, then select **Contacts only** or **Favourites only**.
- **Allow repeated calls to ring**: **Repeated calls** is enabled by default. Your device will ring when the same phone number calls more than once within 3 minutes.

## Configure Your Sound Settings

**Adjust system volume**: Press a volume button and slide to adjust the media volume. Alternatively, touch to display the sound settings screen and adjust the ringtone, media, and alarm volume from there.

- You can also adjust the volume in the system settings. Open **Settings**, touch **Sounds** and slide to adjust the volume.
- On the sound settings screen, touch **Default volume button control** and select **Ringtone volume**. You can now use the Volume buttons to adjust the ringtone volume.

**Switch between sound, vibration, and silent mode**: Swipe down from the status bar to open the notification panel. Touch to switch between **Sound** mode, **Silent** mode, and **Vibration** mode.

**Enable keypad and notification sounds**: Open **Settings**, and go to **Sounds** > **More sound settings** to enable or disable keypad touch sound, notification sound, and touch vibration.

**Set your Phone to Silent mode**: From the **Sounds** screen, enable **Silent mode**, then enable **Vibrate in silent mode**. Now when you receive an incoming call, your screen will light up and your device will vibrate.

**Customize your ringtone and notification sound**: From the **Sounds** screen, choose a ringtone or notification sound according to your preferences.

# Enable Eye Comfort Mode to Prevent Eye Strain

Do your eyes get tired and sore after looking at your Phone for a long time? Eye comfort mode can effectively reduce blue-light and adjust the screen to warmer colors, relieving eye fatigue and protecting your eyesight.

**Enable Eye comfort mode**: Open **Settings**, go to **Display** > **Eye comfort**, and enable **Enable**. The Eye comfort mode icon will be displayed in the status bar. Once Eye comfort mode is enabled, blue light will be filtered out and the screen will take on a yellow tint.

**Quickly enable or disable Eye comfort mode**: Swipe down from the status bar to open the notification panel. From the notification panel, expand the shortcuts panel, then enable or disable .

**Enable Eye comfort mode at set times**: You can configure your Phone to enable Eye comfort mode for a set period of time each day. When Eye comfort mode is disabled, open **Settings**, go to **Display** > **Eye comfort**, and enable **Scheduled**, then set your desired **Start** and **End**.

**Adjust the color temperature in Eye comfort mode**: Once Eye comfort mode is enabled, blue light will be filtered out and the screen will take on a mild yellow tint. This is normal and does not indicate an issue of your device. You can adjust the color temperature as needed. After you have enabled **Eye comfort**, you can adjust the color temperature slider for a cooler or warmer screen color.

- After using your mobile phone for half an hour, rest your eyes for 10 minutes.
- While you are resting, look into the distance to adjust the focusing muscles of your eyes and avoid eye fatigue.
- Cultivating good eye care habits will protect your vision and prevent near-sightedness.

# More Display Settings

## Use Shortcuts to Access Frequently Used Features

If you touch and hold an app icon and no shortcut is created, the app does not support home screen shortcuts.

Each app supports up to four frequently used features. These are preset by the app and cannot be changed.

**Quickly access frequently used app features**: Touch and hold an app icon, and then touch a frequently used feature to access it. For example, to take a selfie, touch and hold the Camera icon, and then touch **Selfie** in the pop-up menu to create a selfie shortcut.

**Add shortcuts to your home screen**: Touch and hold an app icon on your home screen to bring up the menu. Touch and hold the desired feature and drag it to your home screen to create a shortcut. For example, you can add a shortcut for the camera's selfie feature to the home screen.

## Change the Display Settings

Open **Settings**, touch **Display**, and you can:

- **Display full screen**: Go to **More display settings** > **Full-Screen Display** to set apps to display in full screen mode as required.
- **Configure the notch display settings**: Go to **More display settings** > **Notch** to configure the notch display settings.
- **Change the image and font size**: Touch **Text and display size** and drag the sliders to suit your needs.
- **Adjust the color temperature**: Go to **Color mode & temperature**. You can choose from the pre-set **Default**, **Warm**, or **Cool** options recommended by the system. Alternatively, touch anywhere on the circle or drag the spot to adjust the color temperature manually.
- **Automatically adjust the screen resolution**: Touch **Screen resolution** and enable **Smart resolution**. Your Phone will then automatically adjust the screen resolution to save power.
- **Display more information on the status bar**: Touch **More display settings**, then enable **Display carrier name** or **Display network speed** according to your preference.
- **Change the screen-on time**: Touch **Sleep** and select how long the screen will remain on before turning off due to inactivity.

# Storage

## Enable Memory Cleanup

Your Phone may slow down over time as your storage space gets smaller. Use Memory cleanup to free up storage space, improve system performance, and keep your Phone running smoothly.

Open **Optimizer**, then touch **Cleanup** to clean up memory and clear the cache to optimize performance. If your storage space is still low, perform a deep clean to free up additional storage space.

# Smart Assistance

## Access Phone Functions from Anywhere with Navigation Dock

In order to close an app or return to the home screen, you must use the navigation bar at the bottom of your Phone. You can enable the Navigation dock feature on your Phone to avoid using navigation buttons and to comfortably operate your device with one hand.

Open **Settings**. Go to **System** > **System navigation** > **Navigation dock** and enable **Navigation dock**. The Navigation dock will appear on the screen. You can then drag it to your preferred location. The Navigation dock can perform the following actions:

- **Back**: Touch the Navigation dock once to go back one step, or touch it twice to go back two steps.
- **Home**: Touch and hold the Navigation dock and then release it to go to the home screen.
- **View background apps**: Touch and hold the Navigation dock and then swipe left or right to view any apps that are running in the background.

## Enable or Disable Mistouch Prevention

Enable Mistouch prevention to prevent unintended operations resulted from accidental touches on the screen.

Go to **Settings** > **Smart assistance** to enable or disable **Mistouch prevention** as required.

# System

## Change Input Method

Change the input method on your Phone according to your personal preference.

**Switch input method**: Open **Settings**, go to **System** > **Language & input** > **Default keyboard**, and select an input method.

## Accessibility

### Enable Color Correction

Color correction enables your device to compensate for color blindness.

When color correction is enabled, users with normal color vision may have difficulty viewing some colors.

Open **Settings**, go to **Smart assistance** > **Accessibility** > **Color correction**, then enable **Color correction**. Touch **Correction mode** to select the required color correction mode.

## General Settings

### Change Your System Language

You can change the system language on your Phone as needed.

Open **Settings**, go to **System** > **Language & input** > **Language and region**, then select the language you want to use. If the language you want to use is not listed, touch **Add language** to search for additional languages. You can also touch **Region** to select the country/region. The system interface is displayed according to the local habits of the selected region.

### Set the System Date and Time

If you travel abroad or change your SIM card, your Phone will automatically display the date and time provided by the local mobile network. You can also adjust the date and time manually, change the time format, or set dual clocks on your lock screen.

Open **Settings**, and go to **System** > **Date & time**. From here you can:

- **Change the date and time**: Enable **Set automatically** to sync your device's date and time with that of your mobile network. Disable **Set automatically** to set your date and time manually.
- **Change the time zone**: Enable **Set automatically** to sync your device's time zone with that of your mobile network. Disable **Set automatically** to set your time zone manually.
- **Change the time format**: Enable **24-hour time** to set your time format to 24 hours. Disable **24-hour time** to set your time format to 12 hours.

- **Set dual clocks on your lock screen**: When you are roaming outside of your home country, your Phone will automatically display the local date and time provided by the local mobile network. Enable **Dual clocks** and set **Home city** to display dual clocks on your lock screen. One clock will display the local time and the other clock will display the time in your home country.

## Print Documents and Photos from Your Phone

Connect your Phone to a printer over Wi-Fi to print out documents and photos with ease.

- Mopria allows you to print directly from your Phone to a Mopria-certified printer. The printer connects to your Phone over Wi-Fi.
- If your printer is not Mopria-certified, contact the printer manufacturer to obtain a plug-in for your model.

1 Connect your Phone and printer to the same Wi-Fi network.

- **Connect to your printer's hotspot**: If your printer has a wireless hotspot, follow the instructions in the printer manual to enable the hotspot and set a password. On your Phone, open **Settings** and go to **Wireless & networks** > **Wi-Fi**. Enable **Wi-Fi**, select the printer hotspot, and then follow the onscreen instructions to establish the connection.
- **Connect with Wi-Fi Direct**: If your printer supports Wi-Fi Direct, follow the instructions in the printer manual to enable this feature. On your Phone, open **Settings**, and go to **Wireless & networks** > **Wi-Fi**. Enable **Wi-Fi**, touch > **Wi-Fi Direct**, and then select your printer from the list of detected devices.
- **Connect to your router**: On your printer, enable Wi-Fi and connect to your home router. On your Phone, open **Settings** and go to **Wireless & networks** > **Wi-Fi**. Enable **Wi-Fi**, select your router, and then follow the onscreen instructions to complete the settings.

2 Open **Settings**, go to **Device connectivity** > **Printing** > **Default Print Service**, and check that **Default Print Service** is enabled. Select a printer from the search results and follow the onscreen instructions to manually add the printer.

3 You can now print directly from your Phone:

- **Print an image**: Go to **Gallery**. Open the image that you want to print, go to **More** > **Print or export to PDF**, and then follow the onscreen instructions to send the image to the printer.
- **Print a webpage**: In your browser, open the webpage that you want to print, and then select the print option from the menu.
- **Print a document**: Open the document that you want to print in a productivity app and select the print option from the menu.
- **Print a note**: Open **Notepad**. Open the note that you want to print, touch **Print**, and then follow the onscreen instructions to send the note to the printer.

## View Memory and Storage Status

Unsure of how much memory and storage you have left after using your Phone for a long time? You can view your Phone's memory and storage information to help you monitor your memory and storage use and decide whether to perform a cleanup.

Not all devices support memory cards.

Open **Settings**, and touch **Storage** to view the memory usage, and free up more space in a timely manner based on the available storage space.

**Clean up space**: Select **CLEAN UP**, you can view the usage details of apps. Based on the scan result, you can also manually clean up the system as recommended or specify items to clean up.

# System Update

## Update the Phone System Online

Your Phone will prompt you to download and install a system update whenever one is available. Online updates are secure and convenient.

- Before installing the update, connect your Phone to the Internet. Online updates consume mobile data, so it is recommended that you connect your Phone to a Wi-Fi network when updating.
- Make sure that the level of remaining battery power is greater than 30% during the update.
- Using unauthorized third-party software to update your Phone may damage your Phone or put your personal information at risk. You are advised to update your Phone online or bring your Phone and proof of purchase to an Authorized Huawei Customer Service Center for updates.
- Your data may be erased after a system update. Back up important data before updating your Phone.
- After the update, certain third-party apps, such as e-banking and game apps, may be incompatible with the new system. Regularly update these third-party apps to fix compatibility issues.

1 Open **Settings**.

2 Go to **System** > **Software update**.When the system detects a new version, go to **New version** > **DOWNLOAD AND INSTALL**.

Phone update take some time. Do not perform any operations during the update. After an update, your Phone will automatically restart.

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# Personal Information and Data Security

The use of some functions or third-party applications on your device could result in your personal information and data being lost or becoming accessible to others. Use the following measures to help you protect your personal information:

- Put your device in a safe place to prevent unauthorized use.
- Set your device screen to lock and set a password or unlock pattern.
- Periodically back up personal information stored on your SIM card, memory card, or your device memory. If you change to a different device, be sure to move or delete any personal information on your old device.
- Do not open messages or emails from strangers to prevent your device from becoming infected with a virus.
- When using your device to browse the Internet, do not visit websites that might pose a security risk to avoid your personal information from being stolen.
- If you use services such as the portable Wi-Fi hotspot or Bluetooth, set passwords for these services to prevent unauthorized access. Turn these services off when they are not in use.
- Install device security software and regularly scan for viruses.
- Be sure to obtain third-party applications from a legitimate source. Downloaded third-party applications should be scanned for viruses.
- Install security software or patches released by Huawei or authorized third-party application providers.
- Using unauthorized third-party software to update your device may damage your device or put your personal information at risk. It is recommended that you update through your device's online update feature or download official update packages for your device model from Huawei.
- Some applications require and transmit location information. As a result, a third-party may be able to share your location information.
- Some third-party application providers may collect detection and diagnostic information on your device to improve their products and services.

# Obtaining help

Read the Quick Start Guide included with your phone.

Touch **Settings** > **System** > **About phone** > **Legal** to read the legal information.

Visit http://consumer.huawei.com/en/ for more information.

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Model: YAL-L21

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